



The QCWA Journal

Volume 38, No. 2

Summer, 1989

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BALLOTS IN THE MAIL

Irving, TX - QCWA Headquarters mailed the 1989 election ballot to all members on May 15, 1989. The ballot is pictured below. On that date approximately 10,400 ballots were placed in the mails (see story on page 44). You should have received your ballot about two weeks ago. Ballots were mailed to all members whose dues were paid up. In addition, ballots have been mailed to all new QCWA members and to all who have since May 15, renewed their membership in QCWA. Ballots will continue to be mailed to all new and renewing members until June 1, 1989 - no ballots will be mailed after that date.

The ballot is accompanied by a short resume' on each candidate. Added information is available in the Spring 1989 QCWA Journal. Please take time to mark your ballot and mail it promptly!

If you did not receive a ballot due to incorrect mailing address a note to HQ requesting a ballot will be honored. List old and new addresses so that a replacement can reach you.

OFFICIAL BALLOT 1989

FOR PRESIDENT

Harry Dannals, W2HD - ☐
Jim Walsh, W7LVN - - - ☐

VICE PRESIDENT

John Weber, KA2IXW - ☐
Hugh Winter, W5HD* - - ☐

SECRETARY

John Swafford, W4HU - ☐

TREASURER

Wes Randles, W4COW* - ☐

DIRECTOR (Vote for no more than 5)

Milton Chaffee, W1EFW - ☐
Stuart Meyer, W2GHK* - ☐
George Apfel, W2GHV - ☐
Pete Backstrom, W3DM - ☐
Neil Foster, KC4MJ - - ☐
Jack Kelleher, W4ZC* - ☐
Arthur Kay, W5APX* - ☐
Robert E Ray, W5ZMI - ☐
Travis Baird, W9VQD* - ☐

INCUMBENT*

Arlington, TX - The QCWA Officers and Board members will be well represented at the ARRL National Convention, June 2, 3 and 4, at Arlington. A majority of the group have signified their intent, and most candidates for Office will likewise be on hand for this 75th Anniversary ARRL Convention. The QCWA Semi-Annual meeting will occur at Irving, TX, June 5, 1989!

Jasper, AR - President Leland Smith, W5KL, reports that the Officers & Board plan to consider the results of the membership poll regarding Area Representation and Associate Memberships while in session, June 5, at Irving, TX. A report will appear in the Fall, 1989 issue of the QCWA Journal.

Canton, OH - Canton Ohio Chapter 21 reports that ballots are beginning to trickle in (May 20, 1989). These early ballots come from those receiving first-class mailing service (Canadian, International and about 100 U. S. members of QCWA).

Eugene, OR - QCWA Secretary, Jim Walsh, W7LVN, mailed the June, 1989 Board Meeting Agenda to all Officers and Board Members in time to permit review and preparation by those attending - thus permitting a great deal more work to be completed.

QCWA ON THE AIR MEETING

SSB each Sunday Afternoon

2000 GMT, 14.347 kHz

NCS - W6FQ

QCWA ON THE AIR MEETING

CW, each Wednesday Evening

8:00 PM, Eastern Time, 7035 kHz

QCWA HEADQUARTERS ADDRESS

QCWA, INC
1409 Cooper Dr
Irving, TX 75061-5527
Telephone 214 438 8038

Quarter Century Wireless Association, Inc.



HONOR AWARDS

QCWA HALL OF FAME

1980	MR. RAY MEYERS, W6MLZ
1981	MR. BILL HALLIGAN, W9AC
1982	MR. BARRY GOLDWATER, K7UGA
1983	MR. JEAN-B. WOLFF, LX1JW
1984	MR. DON WALLACE, W6AM
1986	MR. GEORGE STERLING, W1AE
1987	MR. VICTOR CLARK, W4KFC

DISTINGUISHED SERVICE AWARD

1975	MR. A. L. WALSH, W2BW
1979	MR. MARK DEVANEY, K4IDC
1988	MR. DAVID TALLEY, W2PF

MEMBER OF THE YEAR

1979	MR. ED TROMBLEY, W8CAM
1981	MR. LEW SIECK, K4NE
1982	MR. HERB GLEED, W6FQ
1984	MR. BERT GUNN, W5FU

ROLL OF HONOR

1981	MR. JOHN DiBLASI, W2FX
1981	MR. GUS GIRONDA, W2JE
1985	MR. BUD WAITE, W2ZK
1986	MR. EARL THOMAS, W2MM
1986	MR. RALPH BARBER, W2ZM
1987	MS. ETHEL SMITH, K4LMB

JOHN DiBLASI AWARD

1984	MR. HAL SEARS, W5NC
1986	MR. OWEN GARRIOTT, W5LFL
1988	MR. CLARENCE SEID, W2KW



The QCWA Journal

OUR PRESIDENT'S MESSAGE

Radio Amateurs have been slow at times to accept change. It took several years to phase out spark transmissions in favor of CW as a more efficient means of communicating. It took several years for amateurs to accept amplitude modulation as a faster means of transmitting information, and several years for amateurs to accept single side band as an even more efficient and effective mode.

And so it is with the requirement for Morse code proficiency. Over 30 other countries, several of which are major powers and accepted world leaders, have adopted forms of code free amateur licensing. Instead of adverse effect, according to the radio societies in these countries, the results have been positive. Many U. S. amateurs and that includes me, have held to the past and have opposed no code licensing for reasons not always clear.

My crystal ball portends that Morse code proficiency will in the foreseeable future continue to be required for those amateurs who expect to use CW. For years to come there will be some of us who will want to use and enjoy communicating with CW. But the crystal ball also suggests that in time, perhaps sooner than some may think, U. S. amateurs will generally accept the idea of code free licensing for operations in the VHF and UHF bands, where CW has not and probably may never be used as a primary mode for transmission.

The position QCWA may take on no code licensing such as the ARRL Board of Directors has before it is not for me to say. I do know that QCWA is obligated by our Constitution to promote interest in amateur radio communications and the advancement of the electronic art. Some of you will feel that a code free license would be in consonance with QCWA objectives and will support a no code proposal. Others still may not agree and may be inclined to think that such a license would adversely affect the hobby and that it would not promote the electronic art.

I hope each of you will think seriously about this matter and take time to express your views and reasoning to the QCWA Board of Directors.

73, /s/ Leland, W5KL

PAST PRESIDENTS

Mr. John DiBlasi, W2FX*	1947-1964
Mr. Earl R. Thomas, W2MM*	1965-1968
Mr. Clarence Seid, W2KW	1969-1971
Mr. Barry Goldwater, K7UGA	1972-1973
Mr. Frank A. Gunther, W2ALS	1974-1977
Mr. Harry S. Gartsman, W6ATC	1978-1981
Mr. Stuart Meyer, W2GHK	1982-1985

EXECUTIVE SECRETARY/GENERAL MANAGER

Mr. Ralph Barber, W2ZM*	1955-1964
Mr. Gus Gironda, W2JE	1965-1973
Ms. Ethel Smith, K4LMB	1973-1976

QCWA OFFICE STAFF MEMBERS

Ted Heithecker, W5EJ	General Manager
Harry Neben, W9QB	Funtest Editor
Nadine Wells, W5ZUT	Office Secretary
Ruth Chance, K5YL	Office Secretary
Joseph E. Ash, W9ODV	Cartoonist
Clarence King, Jr., K6HPW	Life Member Rcd
Keith D. Pugh, W5IU	Satellite Editor
Gene A. Williamson, K7DBV	Book Reviews
J. Harvey Chase, W4TG	Silent Key Research

1988-1989 QCWA OFFICERS AND DIRECTORS

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Esther Given, W6BDE, Director 117 La Granada, Moss Beach, CA 94038	415 728 3110
Fred Hammond, VE3HC, Director 81 College Ave, Guelph, ON, Canada N1G 1S2	519 822 2960
Arthur Kay, W5APX, Director 104 Hampshire, Box 241-C, Shelbyville, TN 37160	615 684 3554
John Kelleher, W4ZC, Director 612 Ednor Rd, Silver Spring, MD 20904	301 924 1605
Lew McCoy, W1ICP, Director 200 Idaho St, Silver City, NM 88061	505 388 4862
Stuart Meyer, W2GHK, Director 2417 Newton St, Vienna, VA 22180	703 281 3806
Leo Meyerson, W0GFQ, Director 1210 North 97th Ct, Omaha, NE 68114	402 392 1708
Hal Sears, W5NC, Director PO Box 38245, Houston, TX 77088	713 367 0552

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EDITORS CORNER

NOMINATING COMMITTEE SEEKS CANDIDATES

The following QCWA members have been named to the Nominating Committee charged with providing a slate of candidates for the 1990 QCWA election.

Merle McLaughlin, W7DNY - Chairman
Betty Stratten, W2PVS
William Staples, W4SME
Fred Linn, W9NZF
Leonard Yerger, K6SS

The Committee's work was begun under the guidance of John Brown, W7CKZ who had been named Chairman. John's work load became such that he could not carry out his duties and he asked to be replaced. Merle is taking on the work.

The Committee is charged with providing at least 10 candidates for the offices of Director to be filled in the 1990 election. Five will be elected.

All QCWA Chapters are requested to survey your members and to enlist those able and eligible to enter the race. Potential Directors should be dedicated to attending Board meetings and in taking part in all QCWA government activities. While it is an honor to be elected a Director, QCWA is needful of hard-working men and women to guide it through the coming years. If you know interested, able men or women, contact any member of the Committee.

- W5EJ -

HAM RADIO ALLOCATION TO BE EXAMINED

BY GOVERNMENT OPERATIONS SUBCOMMITTEE

On May 5, 1989, the Congress of the United States released notice that The Subcommittee on Government Information, Justice and Agriculture, would hold a hearing relative to the FCC decision to reallocate a portion of the Amateur 220-225 MHz band to the Land Mobile Service. Subject of the hearing would be determination as to whether or not the FCC in any way decided in advance that it would reduce ham radio frequencies and then pushed the decision through without proper review or evidence.

This action by the Committee on Government Operations recognizes the appeals made by amateurs throughout the United States that the FCC did not permit proper evidence to be submitted before making its decision and that the decision process might have been marked by procedures not entirely in the sense of the law.

QCWA members and other amateur organizations have worked mightily to get Congress to recognize the possibility of "greased skids" in favor of the Land Mobile Service - asking that the Committee do what it could to get the FCC to permit the ARRL the privilege of Oral Argument before the FCC, thus getting our story into the hands of the

Commissioners and the public. All who have worked so hard, writing, telegraphing, calling and otherwise getting the Committee's attention can now take heart.

If the Amateurs have a case and, if the "skids were greased" now is our chance to get our story into the places where it will do some good. The Subcommittees hearing gives us the chance to prove that we are an important part of the Public Service sector, and if we do that, we will have done all that can be expected. The ARRL has prepared a good case and we have every confidence that their presentation will do all that can be done on behalf of the Amateur Service.

The hearing was scheduled for May 11, 1989. We received notice of the hearing on May 7, 1989. A report will appear in a later edition of the Journal.

Prologue: The hearing was conducted as announced and, on the 12th, we received some comments. It is apparent that our faith in the ARRL has been well placed. They made a fine presentation - the UPS group did not do too well and, the FCC seemed to be on the defensive. Mind now, we haven't overcome, we haven't gained anything except the fine opportunity to be heard. At this moment it looks like the hearing was just what we needed.

There were unsupported rumors that UPS is giving consideration to other frequency segments such as, 216-220 MHz - which is where they should be but, remember, the AMST group will go into orbit - not for good reason but, simply to try to keep that wasteful guard-band allocation of frequencies to protect CH-13 TV. The FCC cannot afford that wasteful luxury and now is the time to hope that the FCC will at long last terminate it.

There may be other important straws in the wind - keep your eyes open and your ears likewise. Know that your support of the letter writing campaign to enlist support of your elected representatives in the House and Senate may not have done the job, but, to our way of thinking, those letters certainly made someone sit up and take notice - which is all that we have needed all along. There will be need for more such concerted action. Remember too, in writing to our Congressmen, lay off technical matters, Congress must depend on the FCC for that phase. What we need is to enlist congressional aid to insure that we have a fair, unbiased hearing. If we have a good case, that's all that is required. The QCWA HLR and the Sunday Afternoon 14347 net will be the place you will hear of any need. Watch for it, and maybe, just maybe, 220-222 will be saved!

A final word - to those QCWA Officers and Directors who have worked to get the word before the Committee - good job! Your efforts are appreciated by all members. To Arthur Kay, W5APX, whose telephone bill is going to be so big it'll have to come in two envelopes, God Bless!

-W5EJ-

We Get Letters

THE OTHER SIDE OF THE COIN!

Wesley Randles, W4COW
6002 North Fremont St
Tampa, FL 33604

Editors Note: In this letter Wesley responds to remarks carried in the Spring QCWA Journal, Page 10, letter written by Charles F. Stevens, K8RIF.

Dear Charles: With regard to your editorial in the Spring issue of the QCWA Journal received this past week.

In your first paragraph you state that "I have never seen a Director at the Central Florida Chapter 107." I would like to remind you that the QCWA Board of Directors is made up of 14 Directors, the President, Vice President, Secretary, Treasurer and 10 Directors at large. If you have been attending Chapter 107 meetings for 7 years then you surely must remember that during the winter of 1985-86, the QCWA President, Leland Smith, W5KL and I (QCWA Treasurer) attended one of your Chapter meetings. Also I remind you that at Chapter 107 meeting in March, 1988 and the meeting in October, 1988, I attended your meetings. I also remind you that I am a member of your Chapter.

Each time I attend a Chapter meeting I give the members present an opportunity to ask questions and I urge them to give me their opinions or suggestions that they would like to put before the Board of Directors.

You state "A Director at the national meetings gives only his opinions instead of the membership that elected him." I assure you that anything a member asks me to take before the Board is taken before the Board. This is true of all the Board members. In fact the lengthy agenda taken up by the Board of Directors at each meeting is largely topics the membership has asked to have put on the agenda.

The QCWA Board of Directors receive absolutely no pay and no travel expense. When one of the Directors visits your Chapter he pays his own travel expense regardless of the distance. The same is true when he travels to a Board meetings. When we visited your Chapter last October 15th, we had especially timed our return from the north so that we could make that meeting as Jim Gundry had asked us to do. Any inconvenience to our personal plans was not important. We felt it our duty to QCWA.

Since our return to Florida last October we have travelled many miles and visited many Chapters. Most of the other Board members have done the same. Our President Leland, W5KL has not only traveled to your Chapter, he has traveled from coast to coast and from Border to Border visiting Chapters. In addition he has visited Hawaii, Europe and Israel and attended Chapter 106 meetings in Germany, the largest Chapter in Europe. All this travel in behalf of QCWA is at his own expense.

To state that none of the Board of Directors of QCWA has visited your Chapter in the past 7 years and to state unequivocally that at the national meeting the Directors give only their opinions is not only untrue and an affront to the Board of Directors you elected but it also makes it harder for the Nominating Committee to find members who are willing to give of their time and money.

Because of my concern, I have prepared this reply to the gross exaggeration stated in the first paragraph of your editorial - to put the matter straight!

QCWA CENTURY CLUB MEMBER

George R. Caron, W1EQ
9 Burgess St., Danielson, CT 06239

It was indeed an unexpected and pleasant surprise to receive the tube containing the very beautiful Certificate indicating that I had been accepted to membership in the QCWA Century Club, an honor I never expected. In the name of QCWA and whoever proposed me for membership, I am most grateful and extend my warm thanks.

Most of my activities have been with Yankee Chapter and I am also a member of Nutmeg Chapter. Because of failing health I can no longer enjoy the friendly meetings of the past. Am now homebound and have to depend on a daughter and son-in-law for my normal needs. They do a great job. If I make it to October 23, I will be 90 years old. My only regret is that had I only known in 1912 that licenses were available I could have joined the ranks of those QCWA members who received their licenses in 1914. Too late now.

My best wishes to all QCWA members and, thanks!

CAUTIONS POSSIBLE BOOTLEG USE!

R. J. Zdunczyk, K4GMX
1625 NW 9th Court, Homestead, FL 33030

The malicious and profane interference that U. S. amateurs, especially in south Florida, have had to endure on our VHF and UHF repeaters is an abomination - - Now consider the repercussions upon U. S. Hams if such an abomination should be foisted upon the world amateur radio operators on a Global scale. Frightening isn't it? I submit to you that this situation may become a reality.

On page 154 of the December, 1988 QST, an advertisement for a 25-watt 10 meter transceiver is shown for a very low price. These stores are privately owned through a franchise, but who will insure that these global transceivers will be sold to bonafide hams? The price range is well within a juvenile's allowance.

I may sound as though I'm hollering **WOLF** but I had to express my concern for what could turn into a very grave situation for the ham community!

We Get Letters

NO-CODE INFORMAL POLL

Ken Johnson, W6NKE
8300 Oso Ave, Canoga Park, CA 91306

I've been working the 10-meter novice/technician band and some on 2-meter FM - asking questions. Although no a real poll, these discussions did provide some interesting answers - here are some of them:

Q. What do you think of the no-code exam?

A. Great, they should throw the code requirement out, not only for UHF/VHF but all the bands.

Q. Why do you think that?

A. Its too hard to learn.

Q. to get your current license you had to learn a lot of theory

A. oh yes, but you can memorize that out of a book - you can't do that with code - got to sit and practice - too much work

Q. Doesn't what does on inside your rig interest you?

A. No, I just want to get on the air and talk

Q. Have you given thought to upgrading your license?

A. Not til they get rid of the code

Q. Have you thought that learning code is like learning another language?

A. Not interested, the language I know is enough

Q. Do you have a computer setup

A. You bet!

Q. Have you learned to write programs, build interfaces, etc?

A. No, bought it and hooked it up like the books said, bought all programs needed so I don't have to know anything about how it works. I just want to talk to the guys.

Q. Do you work packet, rtty, AMTOR?

A. Heck yes, with the stuff I have I can work those and CW too, punch it on the keyboard and receive it on the screen as long as the CW joker send good CW. I can't copy the stuff most guys send - they're all screwed up

Q. What would happen if, in a disaster situation, you couldn't use your computer equipment, your telephone - the only thing left would be tapping two wires together to ask for help?

A. You gotta be kidding! In this day and age it couldn't happen.

One can note - 1) code is too hard to learn, takes practice and lots of hard work; 2) Get rid of the code and make getting a license easier; 3) No interest in how it works - only "urge to talk to the guys".

Ted, I think the current syndrome of the younger generation and no-code proponents is to minimize the effort required to attain a goal and increase the number participating. The result is to downgrade the quality of participants. I think a comment from a fellow I talked to on 10 meters pinpoints the matter: "Once we get rid of the code requirement on UHF/VHF we will work to get it eliminated for the HF bands. Then, by weight of numbers we will get rid of the old hams and bring radio up to the state-of-the-art having only computer controlled communications. I think there's a message there that should be considered!

Throughout history goals have been set to encourage work, effort and dedication to attain the. The shirkers and sloths have fallen aside. The goal must remain resplendent in its glory, the glory of attainment. As in history, many may fail but only as the result of their own doing. The requirements of the goal should never be reduced to meet the cries of the multitude.

ELIZABETH ZANDONINI, W3CDQ



Elizabeth Zandonini, W3CDQ, passed away May 16, 1989 after a valiant fight with cancer. Her death had been incorrectly reported in the Spring Journal, she was 90 years of age. "Liz" was known and respected around the world as a result of her 67 years of nearly daily amateur activity. Beginning in 1921, she became a part of the National Bureau of Standards, CRPL, and WWV until her retirement in 1965. By any standard Elizabeth was a World Class Amateur who added to the stature of the Service through her life-long participation. May she rest in Peace.

INEVITABILITY DOES NOT BRING JOY

Fred Jones, WA4SWF
511 Lackey Ave, Louisa, KY 41230

"I really enjoy reading the QCWA Journal. A lot of the comments on the No-Code I enjoyed but I don't like the idea of no-code (second class amateurs). Hope it doesn't go through, but it will, you know! Keep up the good work on the Journal."

We Get Letters

AUTHENTIC SOURCES OF HISTORY OF RADAR AVAILABLE

I. L. McNally, Commander, USN, Rtd
26119 Fairlane Dr, Sun City, CA 92381

"Dear Sir: I read with considerable interest the brief note on radar history. Extensive and accurate reports have been prepared by several agencies and those who are interested in the background of radar should look into this sources.

To quote from Volume 1 of the Radiation Laboratory Series, Page 13.

'Successful pulse radar systems were developed independently in America, England, France and Germany during the latter 1930's.'

It was not until September, 1940 that the American and British laboratories combined their efforts as a result of an agreement between the two governments. The CXAM air search early warning search radar was installed on the USS New York in 1938. Twenty of these radars were installed and operating in the fleet before Pearl Harbor. I was the Radar Officer on the USS Lexington on her first sortie on December 13, 1941.

The early history of radar development during the early 1930's is covered in 'History of Communications-Electronics in the United States Navy', pages 443-467. A very comprehensive and detailed review was prepared in 1981 by the Naval Research Laboratory with the title, 'New EYE for the Navy: The origin of Radar at the Naval Research Laboratory.' It also covers early radar development in the U.S. Army and Great Britain, page 137. An opening quote dispels any ideas of 'who invented' radar.

'Introduction to Radar Systems' by Skolnik, has a concise and accurate coverage of radar history on pages 8-12. Since the Bell Laboratories played such an important part in the development of microwave radar, their ponderous volume covers radar development in considerable detail in Chapter 2 of 'A History of Engineering and Science in the Bell system.' Quoting from page 21: 'It appears that the world's first radar equipment was designed and constructed by the Naval Research Laboratory in 1934...'

In 1979, Louis A. Gebhard prepared a book which was published as NRL Report 8300. It is of great value as it was prepared by Dr. Gebhard who was truly a pioneer on the scene with over 64 years of Navy Service.

I worked very closely, from 1936 until I retired from the Navy in 1956, with many of the people involved in these developments. The six volumes I refer to will provide a good background of early radar development. Reports from individuals, such as

the one on Page 16, Vol. 38, No. 1, of the QCWA Journal, are often incomplete and inaccurate. As head of Search Radar Design in the Bureau of Ships, I made a concerted effort to collect all of the historical data possible.

One of the Ham publications reported that in spite of massive anti-submarine effort during WW-II, that we sank only 8 axis submarines. The actual figure, according to records from both sides, was nearer 800. The error was never retracted even though official records were provided."

/s/ I. L. McNally

Editors Note:

QCWA thanks Commander McNally for providing an authentic anthology of the early development of radar. The list of sources of information provided should go far to reduce misconceptions and errors while providing a factual basis for researchers.

AMERICA THE GARRULOUS?

Warren Snyder, KI6LE
PO Box 676, Milan, TN 38358

Please correct the listing from KJ4DK to KI6LE, my present call. I do not anticipate any further change since it seems that PRB-1 is a dead duck these days. The ARRL and the FCC can't break the inertia and get off the dime so I guess it will just die a slow death.

I am having mixed feelings about the response and motivation of the ARRL Board these days. I sent in a donation for the building fund but got no notice in QST. The matter of 'Code no Code' is all one hears now while the rest of the world moves on the issue all we do is conduct endless debate. We seem to have supplanted action with words in many areas of national interest. One would think that instead of 'America the Great' we desire 'America the Garrulous' and talk issued to death.

Oh well, that is a penalty one pays for recalling better days.

STATISTICS & VOTING

I am sure that many of you are as tired as I am of hearing someone telling me to vote, or not complain. Well - I am equally certain that a 5% random sample of voters will accurately predict the outcome of any election. So, why worry about it? Well, the secret of statistical analysis is the term RANDOM SAMPLING - meaning votes taken without even the slightest bias of race, color, creed, opinion, area, or anything else. When sampling is RANDOM, statistics are essentially perfect. The problem is that random sampling is almost impossible to obtain. Therefore, to avoid the pitfall of having results of an election skewed by a particularly active group - choose your candidate and vote - this brings the election down to people and issues - leaves the math to Einstein.

We Get Letters

COMMENTS ON JOURNAL EDITORIAL ERROR

Philip E. Battey, W3FZV
3330 Jones Bridge Ct, Chevy Chase, MD 20815

Perhaps I should send this letter to W4TG, Silent Key Research, rather than you, but I have heard that your inclusion of the short obituary announcement for Liz Zandonini on page 14 of the Spring, 1989 issue was a hurry-up job. It is inaccurate, I'm very glad to say, and Liz is now in the Fernwood House Retirement and Nursing Center, Room 202, 6530 Democracy Blvd, Bethesda, MD 20817, after being transferred from a Washington, DC hospital.

Several hams hereabouts, including myself, were rather upset at that announcement; but, we could understand how it came to be included, for Liz was twice given the Last Rites of the Roman Catholic Church while in the hospital. I think that she pulled through by the strength of her formidable will. Liz has loved life and it is a real sadness now to see her confined to bed, without a key and a transmitter.

Had you asked Hugh Turnbull, W3ABC, the ARRL Atlantic Division Director, or Ethel Smith, K4LMB, Liz's long time close friend, or me, you would have been told that Liz was still with us. True, she is a sick woman, and, like all of us, will die sooner or later, but let's not rush it, and let's hope that she can once again get on the air from W3CDQ and work her relatives in Italy.

Liz would appreciate a greeting card. I am sure; I believe that she has not seen the Spring Journal!

Editors Note: Our apologies to all are tendered. Liz was a friend of mine too - a grand Lady, a life-long amateur honored by all. Let us hope to again hear her on the air.

QCWA 1989 ELECTION BALLOTS MAILED

Ballots for the 1989 election were prepared and delivered on May 8, 1989. The QCWA database was audited and believed to be in proper condition. A set of mailing labels were prepared, as follows:

Ballots to Domestic QCWA members	-	9,677
Ballots to First Class Mail members	-	36
Ballots to Canadian/Mexican members	-	257
Ballots to International members	-	354
Ballots to new members	-	41
Ballots to renewing memberships	-	13
Total		10,378

Ballots will be sent to all new QCWA members and

TOP LOADING WITH A VENGEANCE

Back in March, on the 25th to be exact, QCWA Director, Arthur Kay, W5APX, became involved in some special field operating and needed a really good antenna for the job. Never one to be at a loss for an idea, Art took one look at the 100 ft long galvanized roof the shelter pictured below, put down a ground rod and fired up his mobile into the shebang.

This absolutely must be most extensive top-loaded antenna system on record, particularly at the HF operation involved. We will let you in on how he did it, using a matchbox and a bridge to find out about what he had to match up.



And, believe it or not - it worked - had some good contacts. A true blue ham, all the way! Ready and willing to try anything at least once!

to all renewing or reinstating members whose dues are received by June 1, 1989. That is the cutoff date for ballots to be mailed (must be mailed no less than 60 days before the polls close, July 31, 1989.

Note that International Members ballots are mailed via AIRMAIL. Canadian/Mexican members, New members, renewing or reinstating members via FIRST CLASS MAIL, and all domestic members in the database via bulk mailing. Watch for your ballot, check your desired candidates, mark and mail as soon as is possible!

May 15, 1989 - W5EJ

Peter T. Marino, W8PBZ
1913-1989

It was with great sorrow that the death of Peter Marino, W8PBZ, was announced, April 30, 1989. Pete and his XYL, Mary, KA8FXK, have spent their entire married lives in the Cleveland area. During WW-II he was in OSS work and, in the late 40's, became active in emergency communications, becoming ARRL Emergency Coordinator for Northern Ohio. He was instrumental in developing procedures later used by many areas of the Country. He was active in using 2-meter facilities for emergency work. During the late 80's his health began to fail which had no effect on his amateur activities. His last active work was Chairman of the 1989 QSO Party Tally Committee. He will be fondly remembered by his many friends and missed by all who had the privilege of knowing him.

QCWA 1989 National Convention

HOST BATON ROUGE CHAPTER No. 109, Inc

DATES FRIDAY & SATURDAY, OCTOBER 20-21, 1989

LOCATION BATON ROUGE HILTON, I-10 & COLLEGE DR (Exit 158)

RATES \$50 SINGLE, \$55 DOUBLE OCCUPANCY, PLUS TAX

TOLL-FREE TELEPHONE NUMBERS

Baton Rouge, Local 924-5000

Inside Louisiana 1-800-221-2584

Outside Louisiana 1-800-621-5116

When making reservations be sure to state that your reservation is for the National QCWA Convention at the Hilton in Baton Rouge as we have been guaranteed the above convention rates.

The Hotel has hourly shuttle service to and from the Baton Rouge Metro Airport. If you have an unusual arrival time, please advise us

of that fact when you mail in your reservation. We will make every effort to have someone meet you at the airport to get you to the Hotel.

Cut-off date for the special QCWA Convention rates is October 2. The Hotel has promised that you may stay over in the Baton Rouge area for a day or two at the special convention rates.

Cut along this line

CONVENTION REGISTRATION FORM

Name _____, Call _____

XYL's Name _____

Address _____
Street City State Zip

FEES

QCWA Member \$6.00 Amount .. _____

QCWA Member & XYL \$7.00 Amount .. _____

Additional Guests \$3.00 Amount .. _____

Saturday Morning Breakfast \$10.00 Amount .. _____

Saturday Evening Banquet \$22.00 Amount .. _____

Trout Acadianne _____ Prime Rib _____
Tax and gratuity included in above prices

Ladies 4-hour tour and meal \$46.00 each Amount .. _____

Total Enclosed _____

Make checks payable to Baton Rouge QCWA Chapter 109 and mail to:

El Charlton, W5MD
1533 Outrigger Dr, Baton Rouge, LA 70816

(SEE PAGE 56)

DON'T WAIT DO IT TODAY!

1989 QSO PARTY RESULTS

1989 CW QSO PARTY SCORING RESULTS

NO.	CALL	CHP	SCORE	QSO	X	NO.	CALL	CHP	SCORE	QSO	X
1.	K1IU	AL	55,315	481	115	80.	VO1CA	AL	3,195	65	49
2.	W0MHS	49	40,500	375	108	81.	K2RFO	AL	3,150	70	45
3.	W3OG	37	39,188	388	101	82.	W6IFC	99	2,944	64	46
4.	N4IN	66	35,952	336	107	83.	DL3LR	106	2,880	72	40
5.	K6NQ/7	AL	30,176	328	92	84.	K3CP	17	2,624	64	41
6.	W9NA	55	29,704	316	94	85.	N0GVY	143	2,624	64	41
7.	N8BC	1	29,280	305	96	86.	AG5C	AL	2,600	65	40
8.	W5KL	90	26,390	290	91	87.	W1GOG	152	2,562	61	42
9.	K2FJ	65	23,250	250	93	88.	DL1NP	106	2,480	80	31
10.	W2RPF	74	22,360	260	86	89.	W0CY	79	2,475	55	45
11.	KD7E	AL	20,746	253	82	90.	W8EGI	135	2,460	60	41
12.	W6IL	7	20,296	236	86	91.	W0MYM	79	2,380	70	34
13.	W0LR	123	19,844	242	82	92.	W6NKE	7	2,280	60	38
14.	DL6NB	106	19,327	251	77	93.	W0TIV	8	2,262	78	29
15.	K7BZ	16	19,135	215	89	94.	K2FD	138	2,257	61	37
16.	N3WW	166	19,040	224	85	95.	DL1ZQ	106	2,232	72	31
17.	K9CLO	AL	17,928	216	83	96.	W2HTX	16	2,160	60	36
18.	W2RRY	156	17,794	217	82	97.	W5CSQ	38	2,145	55	39
19.	W6BIP	11	17,794	217	82	98.	K8ONV	53	2,080	52	40
20.	W9KKM	55	16,102	194	83	99.	W9JK	55	2,072	56	37
21.	VE3KK	73	15,405	195	79	100.	KM7T	108	2,018	52	39
22.	W1JSM	112	15,048	209	72	101.	W8CZR	AL	1,728	48	36
23.	W6QIL	144	14,592	192	76	102.	W0IZV	58	1,488	48	31
24.	W1DV/4	89	14,288	188	76	103.	W4YE	91	1,410	47	30
25.	W7ENW	4	14,245	185	77	104.	W1SR	AL	1,316	47	28
26.	W6ASH	11	13,300	175	76	105.	VE3JT	73	1,271	41	31
27.	W3TDF	17	13,172	178	74	106.	VE3ST	73	1,230	41	30
28.	W5EFB	27	12,654	171	74	107.	W5VTA	64	1,218	42	29
29.	W6FQ	7	12,474	154	81	108.	K2MN	AL	1,200	40	30
30.	K7ET	16	12,354	174	71	109.	WB4WMP	AL	1,200	40	30
31.	K4EZ	49	12,024	167	72	110.	W1HX/5	64	1,189	41	29
32.	W0AWP	79	12,006	174	69	111.	W3UIU	68	1,110	37	30
33.	W4BK	128	11,583	143	81	112.	W9NGB	36	1,110	37	30
34.	W2RPH	5	10,488	152	69	113.	W0ANZ	123	1,110	37	30
35.	N5EN	38	10,220	146	70	114.	K8UPR	71	1,102	38	29
36.	W5HFN	114	10,200	150	68	115.	W3ADE	37	1,092	39	28
37.	W04D	131	9,438	143	66	116.	W8GAC	21	1,080	40	27
38.	DL1VU	106	9,362	151	62	117.	W1SK	138	1,044	36	29
39.	K6FE	7	9,165	141	65	118.	W3GJI	17	1,020	34	30
40.	K0RH	53	8,990	145	62	119.	DL6DV	106	1,000	50	20
41.	W5GJZ	41	8,775	135	65	120.	W7HO	AL	980	35	28
42.	W9HR	162	8,710	130	67	121.	W5BJ	65	952	34	28
43.	W5OC	41	8,308	134	62	122.	K7DBV	AL	899	31	29
44.	W4HU	91	8,235	135	61	123.	WB2CJE	138	800	32	25
45.	VE3DMC	70	8,120	116	70	124.	W3PVO	150	780	30	26
46.	K4BRC	62	7,930	130	61	125.	W3PLI	37	704	32	22
47.	W9CIB	2	7,670	118	65	126.	DL9PR	106	672	32	21
48.	W9REC	2	7,552	128	59	127.	W0ODD	AL	616	28	22
49.	W8EAR/7	21	7,280	130	56	128.	W3ELJ	AL	600	25	24
50.	W5JC	38	7,245	115	63	129.	W8FDN	1	575	25	23
51.	K9WA	AL	6,844	116	59	130.	W9WYN	2	528	24	22
52.	W8KKM	79	6,832	112	61	131.	W8LE	1	462	22	21
53.	K0ERM	102	6,608	112	59	132.	W9GJS	AL	399	21	19
54.	W6VIF	7	6,588	108	61	133.	W8DIV	131	391	23	17
55.	N4UZ	49	6,528	102	64	134.	W2DX	81	360	20	18
56.	DK0QW	106	6,400	128	50	135.	W8GJX	10	360	20	18
57.	W3BY	150	6,195	105	59	136.	DL1SF	106	360	36	10
58.	W5LJI	63	6,161	101	61	137.	W5NGB	AL	357	21	17
59.	W3ABC	23	6,136	104	59	138.	W2IP	46	340	20	17
60.	K4BAI	AL	6,039	99	61	139.	W3LOV	150	306	18	17
61.	W9RF	55	5,985	105	57	140.	KA2KFC	65	294	21	14
62.	N6GM/KL7	92	5,978	122	49	141.	DJ2ZB	106	280	40	7
63.	W2KTF	81	5,974	103	58	142.	DL3ME	106	279	31	9
64.	W9MKL	2	5,757	101	57	143.	KL7DG	92	252	18	14
65.	W4TYU	60	5,472	96	57	144.	W2RRX	138	240	16	15
66.	KA3GXP	122	5,724	108	53	145.	W0AP	25	195	15	13
67.	W9ZEN	59	5,712	112	51	146.	W3CDY	150	168	14	12
68.	W3NGO	122	4,860	90	54	147.	W2KGI	96	156	13	12
69.	K6SS	130	4,823	91	53	148.	W1MRJ	62	132	12	11
70.	W4NH	91	4,800	100	48	149.	W7BUQ	4	117	13	9
71.	W8EFW	1	4,664	88	53	150.	W3MD	109	100	10	10
72.	N0FFZ	58	4,606	94	49	151.	K6CD	14	36	6	6
73.	DL9AR	106	4,452	106	42	152.	W4COW	32	30	6	5
74.	K9UQN	AL	4,029	79	51	153.	VE1IZ	AL	16	4	4
75.	W9DU	55	3,807	81	47	154.	W6HVB	130	4	2	2
76.	W8TIV	9	3,440	80	43						
77.	W2GP	81	3,430	70	49						
78.	K4OD	AL	3,330	74	45						
79.	W0VIP	8	3,290	70	47						

COMMENTS FROM PARTY LOGS:

Good Parties! Had Fun, Didn't need the Sun Spot activity to foul up the bands! Good to chat with new friends and always look forward to renewing old friendships. One OM asked one of his contacts to make a phone call to a long ago high school friend. Found he lived in that location so instead of continuing, he shut down and used the 'telephone' to talk to his old friend (oh well, that should have been interesting.) Some look forward to next year, hoping to have more time to operate or to have fewer interruptions, such as grandchildren visiting. Terrible band conditions and then luncheons on the same day! We had some mobiles operating, and J52US, Dave Heil, was operating from "Guinea-Bissau".

FROM ONIE, WIZEN: I would like to thank W8PBZ and his committee for the checking they did on the Logs. Thanks to Cleveland Chapter No. 1 for taking on the job!

There were 154 CW logs submitted with 66 Chapters represented and logs from 23 AL members. The

PARTY WINNERS

CW PARTY:

Plaque - K1IU

2nd - W0MHS

3rd - W3OG

4th - N4IN

5th - K6NQ/7

NORTH AMERICA

VE3KK

EUROPE

DL6NB

LOGS RECEIVED TOO LATE TO QUALIFY

KD1U - 7920
DJ4DA - 13,940
J52US - 2,220

1989 QSO PARTY RESULTS

1989 PHONE QSO PARTY SCORING RESULTS

Phone party had 158 Logs submitted with 73 Chapters represented and 14 AL members in the game.

Most who participated did use the log forms printed in the QCWA Journal. This helps a very great deal when checking logs - thanks are extended to all who cooperated in this manner!

Conditions were poor, thanks to all who worked the Parties in spite of the problems. Here's hoping you will be back again next year for this really great QCWA get-together on the air.

73,

/s/ Onie Woodward, W1ZEN

PARTY WINNERS

PHONE PARTY:

Plaque - W6IL

2nd - W4WKQ

3rd - W6FQ

4th - WB2DIN

5th - K9CLO

NORTH AMERICA

VP2MDB

EUROPE

DL6NB

EDITORS NOTE: It was a good Party! Thanks Onie, and Chapter 1! Understand W6IL has sent his condolences to W4WKQ!

PHONE LOGS RECEIVED TO LATE TO QUALIFY

KD1U - 1032
W8KKM - 4465
W8ANM/M7 - 572
SP2FF - 20

NO.	CALL	CHP	SCORE	QSO	X
1.	W6IL	7	49,005	405	121
2.	W4WKQ	84	47,840	416	115
3.	W6FQ	7	40,356	341	114
4.	WB2DIN	81	33,759	341	99
5.	K9CLO	AL	31,008	304	102
6.	W2GHV	77	23,520	240	98
7.	KA2LXW	46	22,680	252	90
8.	W3YM	17	19,844	242	82
9.	W6QIL	144	19,170	213	90
10.	W5ZMI	5	17,679	213	83
11.	W2RRY	156	17,098	206	83
12.	K6RH	53	16,745	197	85
13.	NK7A	108	18,776	168	82
14.	W6RXD	7	13,430	170	79
15.	DL6NB	106	13,182	169	78
16.	K3CP	17	11,753	161	74
17.	W4COW	121	10,656	144	74
18.	W3QJI	17	10,366	146	71
19.	K4BRC	62	9,729	141	69
20.	W3JDF	17	9,620	140	65
21.	W4DEV	120	9,271	127	73
22.	VP2MDB	138	9,112	134	68
23.	W4GXZ	120	8,772	129	68
24.	W7LVN	108	8,556	124	69
25.	K2FJ	65	8,113	133	61
26.	W8DIV	131	7,986	121	66
27.	VE3DMC	70	7,930	122	65
28.	W8HU	9	7,448	133	56
29.	W9RF	55	7,168	112	64
30.	W3WPY	150	7,139	121	59
31.	W8OBI	142	6,993	111	63
32.	N8BC	1	6,867	109	63
33.	W5ADH	41	6,760	104	65
34.	W9LOB	2	6,710	122	55
35.	W5JC	38	6,634	107	62
36.	W8NOR	61	6,608	118	56
37.	W9JK	55	6,496	116	56
38.	W1PB	107	6,440	115	56
39.	K4FCW	128	6,435	99	65
40.	W9WYN	2	6,363	101	63
41.	VE6EO	151	6,148	106	58
42.	W9NGB	36	5,814	102	57
43.	W0DPT	19	5,562	103	54
44.	W0TIV	8	5,432	97	56
45.	W4HVV	126	5,300	100	53
46.	W0IH	8	5,252	101	52
47.	W9YCV	55	5,150	103	50
48.	W9REC	2	5,141	97	53
49.	W0VIP	8	5,100	102	50
50.	W5OC	41	4,900	100	49
51.	W0TAT	8	4,900	100	49
52.	WD4JIC	40	4,784	104	46
53.	W4MOCZ	60	4,264	82	52
54.	W0ANZ	123	3,666	78	47
55.	K4EZ	49	3,650	77	50
56.	W2JKB	131	3,612	84	43
57.	W8TIV	9	3,486	83	42
58.	W9NVK	162	3,404	74	46
59.	K9JIG	55	3,208	80	41
60.	KL7AVX	92	3,225	75	43
61.	W8OYV	21	3,174	69	46
62.	W0MYM	79	3,081	79	39
63.	W5LJI	63	3,040	76	40
64.	W3PVO	150	3,010	70	43
65.	HB9MX	106	2,961	63	47
66.	K4VN	49	2,814	67	42
67.	W5YUA	62	2,795	65	43
68.	N8FTT	9	2,695	77	35
69.	W5JCJ	131	2,688	64	42
70.	K2RFO	AL	2,640	66	40
71.	K8HTR	64	2,484	69	36
72.	W7AHK	AL	2,340	60	39
73.	W0WLN	162	2,255	55	41
74.	W3PP	122	2,196	61	36
75.	W9ULX	2	2,124	59	36
76.	W1GKJ	134	1,980	60	33
77.	VE3JU	73	1,924	52	37
78.	W7UG	160	1,904	56	34
79.	W7000	4	1,850	50	37
80.	W9NA	55	1,836	51	36

NO.	CALL	CHP	SCORE	QSO	X
81.	W3KRM	37	1,800	60	30
82.	W4AZR	66	1,683	51	33
83.	W2QI	65	1,664	52	32
84.	K6SS	130	1,650	50	33
85.	W1KKG	AL	1,598	47	34
86.	W2KGI	96	1,551	47	33
87.	W5KL/M9	90	1,476	41	36
88.	W1SK	138	1,419	43	33
89.	VE3JT	73	1,380	46	30
90.	VE3MMQ	73	1,280	40	32
91.	K16LE	AL	1,230	41	30
92.	W3ILG	68	1,176	42	28
93.	W3GPR	68	1,160	40	29
94.	W3YQJ	165	1,160	40	29
95.	K2MN	AL	1,066	41	26
96.	W2CUE	138	1,044	36	29
97.	W3LOV	150	986	34	29
98.	N6GM/KL7	92	953	41	23
99.	W9MKL	2	945	35	27
100.	K9TBD	17	943	41	23
101.	W2DP	46	884	34	26
102.	W2RPZ	79	874	38	23
103.	W1TIV	112	832	32	26
104.	W2IP	46	825	33	25
105.	W5BED	90	759	33	23
106.	W9FDY	53	720	30	24
107.	W4ITU	35	667	29	23
108.	W1BCV	134	651	31	21
109.	N04B	137	650	26	25
110.	W5NGB	AL	644	28	23
111.	W0HWF	25	575	25	23
112.	W0PEX	123	552	24	23
113.	W4WVN	AL	550	25	22
114.	W8EAR	21	525	25	21
115.	K2KTF	81	459	27	17
116.	W8FDN	1	425	25	17
117.	W3EYN	31	399	21	19
118.	W0WUU	102	378	21	18
119.	W3CDY	150	342	19	18
120.	KE4RB	131	340	20	17
121.	K8CV	10	340	20	17
122.	W8EGI	135	340	20	17
123.	W2DME	138	324	18	18
124.	K2IGH	138	322	23	14
125.	K2TLU	64	320	20	16
126.	W7ENW	4	304	19	16
127.	W1JSM	112	280	20	14
128.	W9WM	159	280	20	14
129.	W4TWW	89	270	18	15
130.	W5VTA	64	240	20	12
131.	W9UIX	49	195	15	13
132.	W9OQI	59	168	14	12
133.	N6JM	AL	144	12	12
134.	W6LDO	11	143	13	11
135.	KM4OA	107	132	12	11
136.	W5EPB	27	132	12	11
137.	K7AOA	AL	132	12	11
138.	N5NT	AL	117	13	9
139.	DJ2XB	106	117	13	9
140.	W9RPP	2	104	13	8
141.	W3TPW/4	122	100	10	10
142.	W0IZV	58	100	10	10
143.	VE3MO	73	100	10	10
144.	K8KH	AL	90	10	9
145.	W4WMP	AL	80	10	8
146.	W2ICW	46	64	8	8
147.	W2ICE	150	56	8	7
148.	K4BAI	AL	56	8	7
149.	K8UZ/M	9	42	7	6
150.	K8GXV	10	36	6	6
151.	DJ1QZ	106	36	6	6
152.	DL9PR	106	36	6	6
153.	W8ETI	1	35	7	5
154.	DL1NP	106	25	5	5
155.	DL3ME	106	20	5	4
156.	K5ZSB	AL	16	4	4
157.	W3OOJ	5	9	3	3
158.	JA3AER	77	4	2	2

No Code Committee Report

REPORT OF THE COMMITTEE TO EXAMINE A POSSIBLE CODEFREE LICENSE IN THE AMATEUR RADIO SERVICE

The President of the ARRL recently appointed a blue ribbon panel to make studies and to generate a report in the form of recommendations to be placed before the ARRL Board of Directors for their consideration of this matter. The Committee was made up of the following:

George S. Wilson III, W4OYI, Chairman
ARRL Vice President

Rodney J. Stafford, KB6ZV
ARRL Pacific Division Director

John M. Crovelli, W2GD
Representing Amateurs as a whole

Kenneth G. Kopp, K0PP
Representing Amateurs as a whole

Y. E. Juge, W5TOO
Representing the Amateur Industry

C. Mike Lamb, N7ML
Representing the Amateur Industry

In addition, the following consultants were designated:

Thomas B. J. Atkins, VE3CDM - CRRL President

Larry E. Price, W4RA - ARRL President

Leland Smith, W5KL - QCWA President

David Sumner, K1ZZ - ARRL Executive V. P.

Shortly after April 1, 1989, the Committee completed its work and submitted a report to the League. The report is long and detailed. The following is a condensed version of the conclusions of the Committee:

1. No licensee should lose any present privileges
2. The present Technician (3A) pool is already being revised to correct shortcomings in its syllabus. The Committee feels this action is needed, and its completion is a foundation of our recommendations. The examination length for this element should be increased to 30 questions to accommodate the slightly expanded syllabus
3. The present Technician class will be renamed "Technician Plus". Each holder of the present Technician class license on the date of implementation of this proposal by the FCC will become a "Technician Plus"
4. A new class of license, called the "Technician", will be created. To obtain this license, an

applicant will be required to pass the present Novice (Element 2) and the revised Technician (Element 3A) written examinations. Both of these examinations must be administered through the Volunteer Examiner Program and credit will not be given for having passed Element 2 before Novice Examiners.

5. For a Technician to become a Technician Plus, he or she need only pass the Novice Code (Element 1A) examination at five words per minute. This must also be done through the Volunteer Examiner Program
6. The licensees of the new class should have distinctive call signs. These would be 2 x 3s beginning with NA#AAA. Upon obtaining a Technician license, the first letter would change to "K" (or the appropriate 1 x 3 if the licensee requests). In practice, these licenses would probably begin with NE#AAA to avoid duplications with suffixes already issued in the KA-KC series
7. The new Technicians should have all privileges now allowed present Technicians above 30 MHz except in the two-meter band. On two meters, the new Technicians should have digital privileges only from 144.9 to 145.1 MHz.

This report was provided by QCWA President, Leland Smith, W5KL, a consultant to the Committee.

A full copy of the report, if desired, may be obtained from QCWA Headquarters for the cost of duplicating and mailing (1.00).

EDITORS COMMENT:

Unless one has been Rip Van Winklering it recently, it must be apparent that a push and shove to establish easier access to amateur licensing through no-code is more than in the wind. Already a few have asked, why is QCWA involved when we know that most members do not favor no-code licensing? Well first, it isn't certain that most QCWA members either favor or oppose no-code licensing. And remember, the Committee report published herein is in the form of recommendations for the consideration of the Board of Directors of the ARRL. Looking at those who served, it is apparent that the entire spectrum of amateur radio was represented - good men who did impassionately study the pro's and con's and sort out the facts from the fancy - the report is not binding on anyone at this time. Let us congratulate our President for his work and the Committee for its report, then watch the progress of the proceeding. You will have opportunity to be heard through your ARRL Directors - be sure to keep yourself advised of what is happening and that your voice is among those heard with thoughts, plans and ideas.

Educational Frontline

HAM RADIO IS OUT OF THIS WORLD

Once again my involvement with Amateur Radio has opened new doors for me. I was honored to receive an invitation to attend the Magellan Launch Educators conference at the Kennedy Space Center, April 25-28, 1989. For two days I attended seminars and went on tours that were impressive and informative.

I was especially impressed with the fact that the NASA speakers emphasized the importance of education in our country today. They put forth a plea to those of us involved in education to encourage creativity and experimentation among our students. There is a need for our American schools to produce bright, well educated graduates to fill the varied and important positions at NASA.

I listened to Dr. Robert W. Brown, Director of Educational Affairs at NASA stress the fact that NASA wants to be recognized as an educational organization along with its other more well known scientific claims to fame. Dr. Brown spoke about the need for stimulating young minds and encouraging the development of analytical skills through innovative programs in school. It occurred to me, as I listened to him, that Ham Radio in the classroom meets all the criteria for a high-motivational, technically oriented, hands-on curriculum. It allows the teacher to challenge the gifted as well as the more "reluctant" learners.

I was fortunate enough to have the opportunity to speak with Dr. Brown about my Ham Radio program with 6th, 7th and 8th graders at Intermediate School 72, in Staten Island, New York. I told him of the work the children did to better understand the flight of Owen Garriott, W5LFL on the Space Shuttle Columbia in 1983. Dr. Brown was intrigued to learn of the tremendous preparation we were involved with for the attempted SSTV contact with astronaut Tony England, W0ORE on the Challenger on August 1, 1985. The Children and members of the community are still coming back to the school to talk about

other Hams with our conference from the Jet Propulsion Labs (JPL). We were able to patch our 2 meter rigs into the P. A. system on the bus so everyone could hear the description of the final countdown. The other teachers and principals were extremely impressed with the way Ham Radio operators were relaying on-the-scene descriptions of the final launch preparations.

I was thrilled to be part of the group who were chosen to watch the launch of the Atlantis from the VIP viewing section 3.7 miles away from the launch site. As the countdown got to less than 1 minute I could hear my own heartbeat. The enormity of excitement I felt was only surpassed by the surge of pride I felt in being an American. It was an awesome experience to see this majestic symbol of the future in front of me on the launch pad. Even though the mission was scrubbed with just 31 seconds to liftoff, nothing could diminish the thrill of being there that day.

As of this writing, the Atlantis has been successfully launched and the important work of sending the Magellan on its interplanetary trek to Venus will begin shortly. As I watched the actual launch on May 4th from my home, I found myself wishing that every American could have the opportunity of going to the Kennedy Space Center so they could enjoy the feeling of national pride and be optimistic and eager to experience the future.



Carole Perry, WB2MGP
April, 1989

the excitement they experienced in our school auditorium that day. Dr. Brown was impressed enough to request that I send more information about my program to him.

Amateur Radio also played an important role in communications as we drove on the tour bus to the launch site on April 28th. Much to my delight there were

other Hams with our conference from the Jet Propulsion Labs (JPL). We were able to patch our 2 meter rigs into the P. A. system on the bus so everyone could hear the description of the final countdown. The other teachers and principals were extremely impressed with the way Ham Radio operators were relaying on-the-scene descriptions of the final launch preparations.

Editors Note:

The story above written by Carole Perry, WB2MGP, a consultant to the QCWA Education Committee, attended the Magellan Launch activities at Cape Kennedy. She is pictured above, while in

the background, the Shuttle Atlantis rests on the launch pad preparatory to being placed in orbit. Carole is one of those contemporary instructors who are developing procedures for using Amateur Radio so successfully as a classroom tool.

AMATEUR RADIO SATELLITE NEWS....

BY

Keith D. Pugh, W5IU
PO Box 121576, Fort Worth, TX 76121

Last issue we discussed operating on the Low Earth Orbit (LEO) satellites. This issue we will introduce operations on the high altitude elliptical orbit satellites, AMSAT OSCAR 10 (AO-10) and AMSAT OSCAR 13 (AO-13). Due to their orbital characteristics, these satellites permit world wide, predictable, communications for approximately 8 to 10 hours per day per satellite. Equipment required for operation on these "Birds" is a bit more sophisticated, but the benefits are worth the additional equipment. Equipment can still take a "Ford" or "Cadillac" approach.

Equipment Requirements

Due to the increased distances involved, operation on these modes must be considered "weak signal" operation. The best analogy is that you are working an "HT" with a "Rubber Duck" that is 22,500 miles away. Receive performance is of utmost importance. Directive antennas with at least 10-15 dB gain are required. Circular polarized antennas are desirable and the ability to switch between right-hand and left-hand circular polarization is desirable also. A means of positioning these antennas in both azimuth and elevation is necessary, but, due to the slow rates involved, the method used can be very simple including manual positioning. The antennas do not have to be high and as a matter of fact should be as close to the shack as possible to minimize feed line losses.

For reception, a good GasFet pre-amplifier is required ahead of your receiver. Low loss feed line is required between your antenna and the receive pre-amplifier to minimize the receiver noise figure. The rest of the receiver can be a VHF or UHF multimode receiver or a good receive converter for the appropriate VHF or UHF band ahead of your HF receiver or transceiver. Like the LEO "Birds," operation is primarily CW, and SSB; however, RTTY, SSTV, and PACKET techniques are also used. The key thing to remember about operating modes is that narrow bandwidth and low duty cycle modes are favored. Modes such as RTTY using FSK are tolerated since they only have one strike against them. FM is not tolerated since it is both wide bandwidth and high duty cycle. For transmission, a multimode transmitter for the appropriate band or a transmit converter for your HF rig is required. Power requirements are moderate. With an antenna in the 12 dB range, you will need up to 40 or 50 watts output to guarantee access during all desirable operating time on the satellite. Many times you will only need 10 watts. These power numbers assume a short run of good coax such as Belden 9913 or hard line. Remember, the uplink to these "Birds" is on 435 or 1269 mhz. so feed line loss is very important. Feed line that is acceptable at HF may not "cut the mustard" at UHF and Microwave frequencies.

Separate receive and transmit equipment is necessary so that you can work full duplex. Working full duplex sounds complicated, but is really quite simple and is very helpful in determining exactly how good your signal sounds. You do not have to take anyone's word for it since you can be your own judge. Techniques for locating your uplink and downlink frequencies are the same as for the LEO "Birds." The frequency bands utilized will be different due to the different transponder modes on these spacecraft. One word of caution, be careful talking while listening to yourself. There can be up to 0.25 second delay in the reception of your own transmission. If you are not careful, I guarantee that an involuntary reaction will cause you to slur your speech enough to make people think that you are drunk.

Keeping track of the satellite's position relative to your station is important since you need to aim your antennas in both azimuth and elevation. Prediction of this information is best done by your home computer. Graphic methods such as the OSCARLOCATOR work for these high altitude "Birds" but are not nearly as easy to use here as they are for the LEO "Birds." Software is available for nearly all popular home computers from AMSAT and other sources. Actually, if you once locate the satellite, the rate of movement is

so slow that you can successfully keep up with the motion by simply peaking the receive signal strength in your receiver by re-positioning the antennas periodically. Most of the time, an adjustment every 2-4 hours is sufficient. Even on a day to day basis, you can start each new day by pointing approximately the same place as yesterday but at a progressively later time (30 to 45 minutes). This technique will work until the longer time cycle (10 days for AO-13 and 19 days for AO-10) causes you to make a larger adjustment. Once the "Bird" is found, all you have to do is tweak up the signal strength by fine tuning the antenna pointing.

AMSAT OSCAR 13 (AO-13)

AO-13 was launched last June (1988) and has been active since achieving its final orbital parameters in July. It is in a Molynia orbit with its orbital plane inclined 57 degrees to the plane of the Equator. Apogee (high point) is 36000 km. and Perigee (low point) is 2500 km. It makes slightly over 2 revolutions around the Earth each day. Since it does not make an integral multiple of orbits each day, it slowly drifts around the Earth. There are several different long term cycles that are noticeable, but the most important one occurs about every 10 days. This is the period of time it takes for the orbit to make a complete cycle from West of your QTH, past your QTH, through East, and back to West. During this 10 day period, you can communicate with virtually the entire world. Each day you can see approximately one-third of the world, but the one-third in view changes each day and repeats on the 10 day cycle. On a much longer cycle, the latitude of apogee drifts from the Equator to 57 degrees North, back to the Equator, to 57 degrees South, and finally back to the Equator again before repeating. This long term drift (measured in years) will cause the satellite to favor the Northern Hemisphere to a large degree over the next few years. When the latitude of Apogee gets to 57 degrees North, we will not only see the orbit that favors our side of the Earth, but we will see a major part of the other pass as well by viewing over the North Pole. This is already starting to happen to some degree.

The satellite is spin stabilized around its antenna pointing axis. To achieve best operation, the line of sight from the satellite to the Sun should be perpendicular to the spin axis and the spin axis should extend through the center of the Earth. It is not always possible to satisfy both of these conditions so a compromise attitude is chosen which will yield reasonable communications capability and at the same time keep the batteries charged.

These factors along with the relative beam widths of the antennas on board determine which modes are enabled and the specific parts of the orbit for each mode. Attitude commands, mode schedule, bulletin information, etc. are uploaded by selected command stations into the satellite's on board "Housekeeping" computer. From that point on, the satellite takes care of itself until it becomes necessary to change the instructions. An extensive amount of raw telemetry data is sent down over the satellite beacon to be processed on the ground for determination of the health and welfare of the Satellite. This data is available to anyone who has de-coding capability for the 400 baud PSK telemetry information. Processing this data makes an interesting alternative activity to just talking through the satellite. Enough of this "gobbledegook," how do you talk through the "Bird?" There are currently five modes of operation available through the transponders. All of the transponders are linear, inverting transponders. The inversion is done for mixing convenience and to minimize the net Doppler shift through the transponder. The inversion means two things; (1) An increase in uplink frequency will result in a decrease in downlink frequency. (2) A lower sideband signal in the uplink will become an upper sideband signal in the downlink. The first four modes are:

	Mode	Uplink	Downlink
Beacon			
	B	435.423-435.573	145.975-145.825
145.812	J	144.423-144.473	435.990-435.940
435.651	L	1269.351-1269.641	436.005-435.715

Amateur Radio Satellite News by W5IU

435.651 S 435.601-435.637 2400.711-2400.747
2400.325

The beacon for each mode carries valuable information for use of the satellite. In Mode B, the beacon transmits CW on the hour and the half hour. It transmits RTTY at quarter past and quarter before the hour. In between the CW and RTTY transmissions, the beacon transmits an extended set of information at 400 baud PSK. In modes J, L, and S, the beacon transmits RTTY every quarter hour with 400 baud PSK in between each RTTY transmission.

Mode S has the narrowest beam antennas so it is scheduled on for a short period of time each orbit when the antenna axis is most nearly pointed at the Earth. Modes J and L are scheduled on simultaneously and occupy approximately two hours of each orbit when antenna pointing favors the 1269 mhz. antenna beamwidth. Mode B has the widest antenna beamwidths so it is scheduled during the remainder of the orbit. Mode B thus is on for the longest period of time and is currently the most popular mode. Mode B also presents the least stringent equipment requirements. Mode J ground equipment requirements are just the reverse of Mode B, but on the satellite it shares the downlink transmitter with Mode L; therefore, it is only scheduled with Mode L. As time goes on, Mode L is becoming more popular due to its much wider bandwidth and quieter downlink band. The fifth mode is OFF and is commanded when the satellite is in Eclipse to prolong battery life.

Depending upon equipment available at your QTH you pick your modes and take your chances. The Mode is scheduled by orbital phase and this schedule is published through several AMSAT sources. On some tracking programs this mode schedule can be loaded into the program to automatically advise you of the current mode of operation. All programs output orbital phase so that you can cross check time vrs. phase vrs. mode and determine the current mode. After mode determination, you then pick a downlink frequency, subtract it from the passband conversion constant (581.4 for Mode B) and set the resultant uplink frequency in your uplink VFO. While transmitting, tune the receiver around the predicted frequency to locate your own uplink. The difference between the selected downlink and the resultant downlink is the doppler (and calibration) correction necessary to predict your exact uplink vrs. downlink relationship. With a little practice, this operation becomes almost automatic so don't let it scare you. Once you have located yourself and have established a contact, the convention is to adjust your uplink to maintain a constant downlink. A few words should be said about power. First and foremost, DON'T BE AN ALLIGATOR. Listen to the downlink beacon and adjust your uplink power so that your downlink is no stronger than the downlink beacon. Strict adherence to this practice will result in a fair sharing of the available downlink power. If you are an ALLIGATOR, the satellite will AGC such that your signal will be the only one left in the passband and everyone else will know who the ALLIGATOR is.

AMSAT OSCAR 10 (AO-10)

AO-10 was launched in June of 1983 and has now been in service for six years. Initially it's capabilities were much the same as AO-13 with a few exceptions. It only had Modes B and L. Mode L had a downlink power problem and the orbital inclination was only AO-13 and it yielded many hours of operation (and a lot of DX) for many users.

About two years ago, AO-10's Housekeeping Computer developed a bad case of Amnesia due to a heavy dose of radiation. Since that time, we have not had control over the satellite attitude and mode. Fortunately, the RF end of the "Bird" and the DC end have remained in good shape. Many contacts are still being made through it's Mode B transponder when Sun angles are favorable to keep it's batteries charged. At other times the satellite goes dormant. Thus far, it has always returned to life when the Sun angles again become favorable. It continues to provide valuable supplemental communications to those provided by AO-13. Procedures for use are identical to those employed on AO-13 Mode

B. It's mode characteristics follow:

	Mode	Uplink	Downlink
Beacon			
	B	435.030-435.180	145.975-145.825
145.810			

The Mode B beacon is currently a steady carrier with no other modulation. Power management is the same as for AO-13. If you notice any "FM-ing" of the downlink, cease using the satellite and let it's batteries recharge. Lets hope that this operation continues for several more years.

Conclusion

Many hours of operating enjoyment are available through these "high altitude Birds." World wide DX at VHF, UHF, and Microwave frequencies is available in a friendly relaxed atmosphere where people are willing to carry on lasting QSOs across international boundaries. Technical achievement awards are available for accomplishments earned through use of the "Birds." Unique opportunities exist for simultaneous coverage of all areas within parts of four continents without any gaps or "skip" zones. A very good, simple dissertation on all facets of station construction and operation is now available in "A Beginners Guide to OSCAR 13" by Keith Berglund, WB5ZDP. This book is available through AMSAT at P. O. Box 27, Washington, DC 20044. Additional information is available through the sources listed in the Spring 1989 issue of this newsletter. See you on AO-13 and AO-10!

Next Issue - Introduction to Digital Satellites.

Editor's Note:

This is the third installment of information prepared by Keith for QCWA. I hope that you have all been reading the material and, by all means placing the copies of your Journal where they will be easy to find. These articles have all the earmarks of becoming a reference trove for those who are interested in, or who are becoming interested in this new and wonderful world of satellite communication.

QCWA PROVIDES ADDED CONVENIENCE

Since the Fall of 1988, QCWA Members have been able to use the convenient credit-card method of making dues payments, ordering supplies, etc. Cards acceptable have been:

AMERICAN EXPRESS - VISA - MASTERCARD

At this time you may also use DISCOVER Cards for the purposes of transmitting funds to QCWA. This service has been especially helpful to our International Members since the exchange rate is taken care of automatically.



When Spark was King

THE OLD WIRELESS STATION AT CAPE HENLOPEN, DELAWARE

by Charles S. Horn, W3PM, ex 3PM

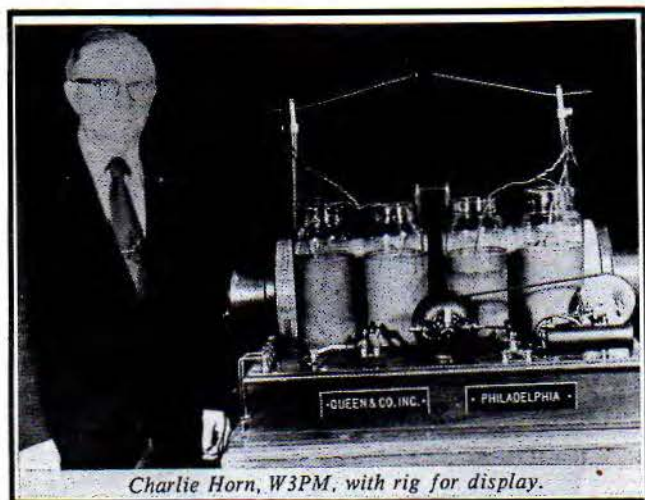
In 1918 I purchased from a Lewes, Delaware physician a spark coil with a motor-driven interrupter together with four Leyden Jars. The physician told me it came from the wireless station at Cape Henlopen. He used it to supply the voltage to his X-ray tube.

I used this equipment as my amateur wireless transmitter as long as it was legal. With the development of modern wireless telegraphy the spark coil type of transmission became illegal.

The base of the unit measured 28" x 34" and was well made of hand rubbed cherry and weighed nearly 200 pounds. There were two secondaries in the rear, each measuring about fourteen inches long and fourteen inches in diameter. They were covered with black bakelite with the words "Queen & Co., Philadelphia" engraved on each side. They were "pie-wound" in rosin using about number 36 silk covered wire. On each end was a large "smoke stack" used to hold the wires between which the spark jumped.

In front of the unit was the motor-driven interrupter with its rheostat speed control and an extremely large eight-tapped condenser which was connected across the interrupter points. The primary was an open core made of small straight iron wires three feet long and one turn of number three copper wire.

When about 1,000 watts of lamps were placed in series with the primary, one could obtain a two-inch spark across the gap with the Leyden jars in a series-parallel arrangement. One did not have to use the interrupter for operation. 120 volts AC would suffice to produce the large spark.



Charlie Horn, W3PM, with rig for display.

THE OLD COIL & STATION HISTORY

In 1922 while working with General Electric in Schenectady, New York, I met Charles Anderson, Chief, USN, Retired. He had been the Chief in Charge at Cape Henlopen Wireless Station. Also at the station was Harry Martx and another man by the name of Surrius Montcalm. Montcalm had married a Lewes, Delaware girl and was later transferred to China. His wife did not accompany him overseas.

Chief Anderson was able to accurately describe my old spark coil transmitter from memory. He related how it had been built by Queen & Company of Philadelphia for the Chinese government about 1898. He was unable to explain how the U. S. Navy came to obtain it for use at Cape Henlopen Wireless station. In 1972, Surrius Montcalm came to my home and saw the old transmitter. At this time he was eighty years old and of failing memory. He said he could not remember seeing the unit before.

Today I am still searching for someone who might recall the old wireless station. Its location is designated on a 1910 edition of U.S.C.G.S. Chart No. 379 and, I have pictures of the old station taken about 1910. It was rumored that the facility had been a commercial wireless telegraph station at one time but I can find nothing to substantiate that belief.

When the building was abandoned as a wireless station about 1912, it was occupied by a German artist who was suspected of being a German spy. Eventually, around 1917, we was evicted. In 1918 and 1919 I was stationed there. Chief Anderson told me it had been a "distance-finding" station with navigational horns operated by steam. During the years I was there it was not used as such, although there were large square holes which may have been sued for the horns. Just after I left the station it was converted into a radio compass station and a few years later the old building was again abandoned and a new compass station was constructed about one-half mile northwest of the original site.

I have been able to find that in 1908 the call sign was "PX", the power was 3000 watts and the system was "MASSIE". The wavelength used was 475, 490 and 625 meters and the aerial was 150 feet long. In 1910 the call sign was changed to "NAJ", using the wavelength 600 meters and the same 3000 watts of power. In 1919 the call sign was changed for a final time to "NSD".

When I used the old spark transmitter for amateur use, I used a conventional gap together with brass ribbon and flat wound helices.

++++++

Charles S. Horn, W3PM, became a Silent Key before completing this article. Notes dictated to his

son, James G. Horn were saved and turned over to his life-long friend, E Hill, W3FEG, who put them together and finished to record of the old Wireless station. . . . "As the coil was potted in rosin, it had over the years, distorted, breaking some of the outer 36-gauge secondary wires. I assisted W3PM in these repairs. Repairs were made and the coil tested. (What a bang) - the unit was delivered to the Maritime Museum in The Cannonball House, Lewes, Delaware. At the museum we gave a demonstration, however the "audio shock" to those both inside and outside the museum resulted in the curator, Henry Marshall, declaring there would be no more demonstrations.



Charlie Horn, W3PM, now SK, at rig in 1918.

The following local amateurs, members of the U. S. Naval Reserve before WW-II, all received training as Radiomen under Chief Radioman, Richardson S. Roberts, W3DTO, of Lewes Delaware. Seton Maynadier, W3PK, Bill Roach, W3FZH (KE6QB), Jack Salin, W3FKT and Ed Hill, W3FEG. The facility at that time was a direction finding station with call NSD>

The Lewes, Delaware Maritime Museum was founded and is operated by the Lewes Historical Society. The British siege of Lewes left a cannon ball in the wall of the Cannon Ball House.

Ed Hill, W3FEG (QCWA #9374)

Editor's Note: This story and material was assembled by W3CDY, a friend of Charlie, W3PM - who worked with Ed Hill, W3FEG to get the article ready for publication. It took some prodding to get Charlie's son, James Horn, to dig out the information and pictures. He released them to Ed Hill, who wrote the last three paragraphs, and gave them to Lloyd W. Sherman, W3CDY, who gave the material to QCWA. We have not been able to find that W3PM was ever a QCWA member.

A WORD PICTURE OF LONG AGO

Ray Wood, W9SDY

2545 Parkwood Dr, Yuma, AZ 85364

Although I have only recently become a member of QCWA. I operated 40 kW and 60 kW transmitters for RCA and AT&T in the late twenties. I have been a ham for 62 years and have a story that might be interesting.

It was nearly 60 years ago - my friend, Roscoe Johnson, W9ABD, was in charge of the wire services for United Press for the whole midwest basin. He mentioned that McMillan was going to the North Pole on the Bowdoin and that he would like to be able to work that expedition. So I built him a new amplifier and tuned a dipole to the lower edge of twenty meters. When the Bowdoin arrived under the polar ice cap, W9ABD had the best signal from the Chicago area and Roscoe handled the traffic for that area from the crew of the Bowdoin.

On night close to midnight, while waiting for the Bowdoin to transmit, he heard another signal on the frequency that the Bowdoin used and it was tuning up. Now I have to digress and tell you that on that morning, the Chicago Tribune had a headline announcing that "Anne and Lindy lost". The Lindberghs were on their way to Japan, financed by a major airline. Then Roscoe heard the new signal say "This is the Lindbergh Expedition. We are down in Alberta making repairs and will go on to Alaska tomorrow." Roscoe turned to my friend John Larson, who Worked for NBC and who happened to be visiting Roscoe that evening and said, "I'll toss you for it to see if UP or NBC gets it." They finally agreed that Roscoe would lay it on the copy desk of the Chicago Daily News for a flash edition and then NBC would put it on the network, which was done. The commercial airline that financed the Lindberghs announced that the Chicago amateur was a fraud and if they couldn't hear the Lindberghs with their powerful equipment, how could the amateur hear them?" As Roscoe reported to the newspaper, the Lindberghs arrived in Alaska the following day.

When the Lindberghs arrived back in the States, Roscoe wrote to Anne, who as the radio operator for the expedition and asked for a transcript of her log of the date when they were down in Alberta. When Roscoe received it, he wrote to the commercial airline that said he was a fraud and demanded an apology in writing or there would be a lawsuit. He got the apology from a top executive which he framed and hung on the wall of his shack as his proudest document.

Historical

CHANCE MEETING TRIGGERS MEMORIES!

I was standing on the overhead bridge which takes "old 24" through the main street of Waterford and over the Nanticoke Creek and the double-track C.N.R. lines which run from Windsor/Detroit to Fort Erie/Buffalo. A pleasant lady who I did not know, came along and we watched the kingfishers plunge determinedly for one of the few fish left in the now polluted mill-pond.

I've always had a curiosity about people I meet, and this lady, Mrs. K. Sarafinchin, said she was from "near Canora, Sask." Canora! This triggered a dormant thread of recollection in my mind -- yes, Canora was one of the communities which had one of the rare amateur broadcasting stations that existed in the period 1923 to 1935 uniquely in Canada. I must have seemed absent-minded or even stunned to this lady as these thoughts ran through my mind and shut out the outside world temporarily -- then, I hastily asked if she had any present connection with Canora, and she volunteered to give me a non-current copy of the "Canora Courier".

Seeing the feature from Canora's past on the Meadowdale Rural Telephone Company of 1918, gave me the feeling that asking for information from the 1920's and 30's wasn't the impossible dream after all.

Canada, through its issuing authority, the Department of the Naval Service and later the Dept. of Marine and Fisheries, issued in those years a category of license called "amateur broadcasting station". These were expected to have a maximum radius of service of 25 miles and used low powers ranging from 5 to 25 watts. They all operated on a wavelength of 250 meters (about 1200 kHz). The fee for such a license was \$5 in 1923-24, rising to \$10 in the 1925-1936 period. The call signs, unlike those of three or four letters for the commercial broadcast stations consisted of Canada's "VE" prefix followed by

the numeral 10 plus two letters. Since this combination became quite long (e.g. VE10AA) the stations invariably called themselves "ten whatever". Canora was given 10BU.

The earliest reference I have been able to find on 10BU is in the DeForest Crosley Limited list of Canadian broadcast stations of 1931. Curiously, some American publications show 10BU variously in Concord, Sask and, even in Kenora, Ont. From all references I have been able to find, 10BU existed from 1931-34. It was operated by the Canora Radio Association at Railway Avenue East, with 15 watts of power.

My research indicates that the maximum number of such stations licensed over the years was 54. The maximum number in operation in any one year was 23, in 1927.

Other Saskatchewan entries were 10AT at Unity, which became CHSC in 1924; 10BI at Prince Albert, which became CKBI, in 1934; and 10AB at Moose Jaw, which became CHAB in 1934. Also licensed in 1922 was 10AF at Saskatoon, with no further information yet found.

We're seeking information on any or all of these very unique stations-if you know of persons who might provide information write to:

Phil Wharton, VE3RE
Box 183
Waterford, ONT N0E 1Y0
Canada

This story, slightly edited, was prepared by Phil and published in the Canora Courier. It is a truly interesting story of the early days in Radio and should be chronicled as a part of amateur radios part in Canadian Broadcasting History. Help if you can

-Editor-

Editors Note: A one in a million chance - Jim has been cloud-walking since the get-together!

A MILLION TO ONE!

Jim Walsh, W7LVN
159 E 16th St, Eugene, OR 97401

"Some time ago I mentioned receiving a booklet titled "40 Years of Mobileeering" by Don Johnson, W6AAQ - well, anyway, I talked to this guy in 1948 or so about antennas for 75 meters and then we lost track of each other. I re-discovered him when someone gave me one of his books and I ordered several of them. We have developed a letter writing program. In one of his letters he enclosed a card with a picture of a PBY Black Cat on it and said, 'This is where I spent most of my time in the Pacific (WW-II). I read that and waited until about mid February when I wrote him about material I had and reminisced about my adventures as a hospital corpsman in the Navy and having been with a Black Cat squadron on an island called Samarai, just off Milne Bay in New Guinea.

Came a twenty page letter from Don and it was about his arrival at Samarai and about some hospital corpsman who worked on his ear (me, I remember this guy coming into sick-bay all the time).

This week a package of video tapes arrived from Don, one tape is titled PBY's in the Pacific, or something like that. I went right to a VCR and ran it - wonders of wonders, here was footage of our Island, our PBY's and removal of a pilot from a PBY (in which I was involved) and then some shots of our Island. Here I am in my home watching a movies shot nearly 45 years earlier - we had never seen the pictures before.

Can you imagine, here I have an amateur radio friend and we have talked and then parted for 40 years. We come together again over a book - then I find out we served on the same base - then he comes up with a copy of a film taken on the base after all that time and it seems I am in the picture!

Isn't amateur radio wonderful?"

Chapter Reports

SCHEDULED ON-THE-AIR MEETINGS REPORTED

1	Cleveland Chapter	Wed	2400Z	WBOXA	146.88
2	Chicago Area	1st Thu	2100L		147.15
4	Northwest Chapter	Sun	1630Z	W7PN	3655
		Sun	2000Z	W7FNC	3952
		Sun	2300Z	W7AZI	3952
5	Delaware Valley	Sun	1445Z	W2HX	3917
6	Pittsburgh	Sun	1330Z	WBCSU	147.63
		Sun	1400		
7	Southern California	Sun	0900L	W6FQ	3917
		Sun	1100L	K6BA	3695
		Sun	1000L	W6ZRZ	146.805
8	Upper Midwest	Sat	0800L	W0KHG	3880
9	Dayton/Cincinnati	Sun	1800Z	WBDWT	3987
10	Michigan	Sun	1200Z	V	3903
11	Northern California	Sun	0930L	W6BCM	3907
		Sat	1000L	W6FQA	146.25
14	San Diego	Wed	0400Z	K6QM	145.520
15	Tulsa	Sun	0645L	W5FU	3830
		Sun	0930L	W5FU	7157
16	Arizona	Sun	0800L	W7ER	3890
20	Baltimore	Mon	2100Z	W3EE	147.285
21	Canton, OH	Wed	0130Z	W8OYV	147.42
25	Nebraska	Sat	0830L	W0EUT	3982
27	Houston	Thu	2000L	W5CCD	3866
28	Central New York	Sun	1030L	V	3917
31	Reading, PA	Mon	0100L		146.91
32	Gator	Sat	1200Z	W40IN	146.37
33	Gunderson-Penn-Jersey	Sun	0100Z		3982
35	Mid-Continent	Thu	0130Z	K0QIQ	146.37
36	Northwest Indiana	Wed	0100Z	W9NGB	145.45
38	San Antonio	Sun	2030L	N5EN	28650
41	Dallas	Sun	0715L		3835
44	Nevada	Mon	2000L	W9RU	145.39
45	Citrus	Tue & Thu	0030Z	K4KQ	147.225
46	Founders'	Sun	1615Z	W2DP	3917
48	Treasure Coast	Daily	1500Z		7153
49	Atlanta, GA	Sat	0900L	K4VN	3855
55	Wisconsin	Sun	1430Z		3985
58	Colorado	Sun	0900L	W01JR	3905
		Sun	0930L	W0ERR	146.07
60	East Tennessee	Sun	1700L	W4EWR	3875
61	Detroit Metro	Sun	0800L	W81HX	3663
62	Swansee	Sat	0900L	K4BRC	3940
63	Central Oklahoma	Sun	1400Z	V	3855
64	El Paso	Sat	1530Z	V	3933
65	Niagara Frontier	Sun	1330L	W2SD	3900
73	Southern Ontario	Sun	1400Z	VE3CD	3772
		Sun	1700Z	VE3TO	7090
75	Central California Coast	Sat	2030L		3917
76	Blue Ridge Chapter	Sat	1300L		7180
77	Northern New Jersey	Sun	1800Z	W20JW	3917
		Fri	0100Z		147.285
79	Sunflower Chapter	Wed	2100L		146.22/82
	1st & 3rd	Sat	1400L	W0AWP	3610
	2nd & 4th	Sat	1400L	W0MYM	3915
80	Caloosa	Wkly			146.52
81	Long Island Chapter	Sun	1130Z	W2AMI	3917
84	Florala	Mon	0130L	KF4BU	146.28
85	Ark-La-Tex	Mon	0100Z	K5LFJ	146.67
87	Evergreen	Sun	1400Z	W7CJ	3985
89	Palmetto State	Sat	0900L	W4EGH	3927
		Sun	1700L	N4LS	3695
90	Razorback	Sun	1300L	W5MYZ	3907
92	Northern Lights	Sat	2000Z		29000
96	Gateway	Sat	1600Z	W2KGI	3933
102	Dakota	Sun	1400Z	W0HOJ	3890
104	Treasure State	Sat	1700Z		3938
106	German	Mon	1700Z	DL9AR	3663
		Tue	1730Z	DJ2ZB	3555
107	Central Florida	Sat	0800L	W4LHP	7243
		Thu	1400Z		21380
109	Baton Rouge	Sun	0830L	W5URR	3905
		Sun	2000L	W5URR	146.19
110	Kansas	Sat	0730L		3920
112	Yankee	Sun	0830L		3902
114	North Texas Chapter	Sat	1430Z	W85PHM	3943
117	Appleseed	Mon	0130Z	W8JYY	147.96
118	Coastal Carolinas	Mon	2000L	W4EHF	146.28
120	QC Wireless Women	Tue	1900Z		14295
122	Lake Erie-Tri State	Sun	1430Z		3915
123	Lee deForest	Sat	1330Z		3885
125	Halifax Chapter	Tue	1930L	K2HWF	147.15
126	Piedmont	Sun	0900L		3935
128	Pelican	Sat	1500Z		147.06

130	Inland Empire	Sat	0800L		3862
131	Gulf Coast	Tue	0900L	WF4V	28750
134	Pine Tree	Sun	1930Z		3942
135	Mid-Michigan	Tue	2000L		146.40
138	Central New Jersey	Tue	2200L	W2DME	147.045
140	Wyoming	Sat	1500Z	W7MZW	3923
143	North Colorado	Sun	0830L		146.25
146	Twin State	Sun	0830L	W1SVT	3897
149	Nutmeg	Sun	1630Z	KA1SJ	3923
150	Del-Mar-Va	Sun	0900L	W3BY	146.22
151	Wild Rose	Tue	0200Z	VE6EO	7070
152	Royal Palm	Daily	1800Z	W4LZV	3910
		Tue & Thu	1830Z	W4LZV	14180
157	Pony Express	Sun	1430Z	K0TUH	3955
160	Utah Chapter	Sat	1730Z	W7FVM	7272
162	Southeast Wisconsin	Thu	0300Z		147.27
164	Big Bear Lake	Sun	0300Z	K6GCF	147.33
165	York County	Thu	0200Z	W3AXC	146.94

QCWA INTERNATIONAL & REGIONAL NETS

QCWA INTERN'T'L	Sun	2000Z	W6FQ	14347
QCWA CW NET	Wed	2000E	W5QU/W4PI	7035
Florida SSB	Sat	1300Z	K2SN	3955
NE Regional	Sun	0845L	KA21XW	3917

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PRELIMINARY BASIC PROGRAM OF EVENTS

Thursday, October 19, 1989

- 9 A.M. to 5 P.M. - Closed Board Meeting
- 10 A.M. to 7 P.M. - Registration

Friday, October 20, 1989

- 8 A.M. to 12 noon - Registration
- 9 A.M. to 10 A.M. - Free time
- 10 A.M. to 11 A.M. - Talk by FCC Engineer from New Orleans
- 1 P.M. to 2 P.M. - Free Time
- 2 P.M. to 3 P.M. - ARRL Forum with Clyde Hurlbert, W5CH, V.P. ARRL
- 3 P.M. to 4 P.M. - Talk by Stuart Meyer, W2GHK
- 4 P.M. to 8 P.M. - Rest Time
- 8 P.M. to - Sing-along with Leo Meyerson, W0GFQ - Open cash bar.

Saturday, October 21, 1989

- 8 A.M. to - Buffet breakfast, Franklin Computer "Spelling Ace" drawing
- 10 A.M. to 11 A.M. - Plantation tour for Ladies and OMs too. Tour lasts about 4 hours. Pickup will be in front of the Hotel
- 10 A.M. to 11 A.M. - QCWA Officers & Directors open Board Meeting
- 1 P.M. to 2 P.M. - Free Time
- 2 P.M. to 3 P.M. - Martin Schreiber, WB5FCE, Bagpipe Demonstration and talk
- 3 P.M. to 4 P.M. - Talk by Lew McCoy, W1ICP
- 4 P.M. to - QCWW Chapter meeting
- 7 P.M. to 8 P.M. - Cocktail hours
- 8 P.M. to - Banquet. Main Speaker Mr. David Grouchy, speaking on "humor"

REGISTER FOR THE CONVENTION!

DO IT TODAY!!

See Page 45 of this Journal for Registration Form, for Hotel Reservation information

Chapter Reports

SUNCOAST CHAPTER of QCWA

Robert Bookwalter, W4NWF
728 Valencia Rd, Venice, FL 34285

The Suncoast Chapter held the last luncheon meeting of the season May 4, 1989, at the House of Chong in Sarasota. There were 55 members and guests present. President Mary Ryden, K8ONV, announced that Robert A. Neff, W8HSM, had become a Silent Key on May 3, 1989. After calling on guests to introduce themselves she called on the Secretary and Treasurer for their reports.

Bob Bookwalter, W4NWF, read a letter he had received from Leland Smith thanking the group for their hospitality when he, Wes and Blanche Randles, and Jim Walsh, visited the Chapter. He also expressed his thanks for pictures taken during the visit. Mary said there was no old business, therefore the report of the Nominating Committee was presented by Lloyd Pfahler, W8FKL. The following slate of officers was named:

Bob Bookwalter, W4NWF - President
Irene Clayton, WD4LUU - Vice President
John Karban, W3IGC - Secretary
Larry Pearsall, W9FDY - Treasurer

There being no nominations from the floor it was moved, seconded and passed that the slate be elected by unanimous vote. Mary then called on several members to tell how they became interested in ham radio and how they got their start.

The meeting was adjourned after reminding the members of the informal luncheons at the Trolley Station in Sarasota on the first Thursday of June, July, August and September, with regular meetings resuming in October.

DELAWARE VALLEY CHAPTER No. 5

Donald G. Field, W2UAE
101 Denow Rd, Lawrenceville, NJ 08648

The spring meeting of the Delaware Valley Chapter 5 was held on Saturday, April 8, 1989 at the Woodbine Inn in Pennsauken, NJ. Social hour started at 6:00 PM and dinner was served at 7:00 PM.

Following the dinner, a short business meeting was held with Chairman Fielding Waters, W3DIP presiding. It was announced by the Chairman that the Chapter was going to return to four meetings each year. It is felt by the executive board that two meetings per year are not sufficient to keep the members together and active. Also a two meter net is to be started in the near future.

The speaker for the evening was Mr. Harry Fox, former Chief of Inspectors and Deputy Commissioner of the Philadelphia Police Department. Mr. Fox did not speak on police work but delivered a very interesting talk on "Having a Sense of Humor". Of course his talk was filled with humor and Mr. Fox is an accomplished speaker. Everyone enjoyed the evening and the fellowship of their fellow ham friends.

NOTICE

It is our practice to include a listing of gifts to the Memorial Scholarship Fund and to the QCWA Building Fund. This section has been eliminated for this edition of the Journal. It will be included in the Fall issue, which will carry information since the last edition.

Chapter Reports

Palmetto State Chapter No. 89

John R. Miller, W0IKT
401 Tiffany Dr., Anderson, SC 29625-1815



Attendance was excellent at the last Chapter luncheon meeting February 11, in Columbia. Those earning the 50-Year Gold Award were Wells E. Burton, N4EE; Bennett G. Davenport, W4GCJ; J. T. Lyman, W4FMZ; and D. Lowell Peterson, W9EDG. Endorsements on the Golden Award were earned by William G. Baird, Jr., K4II (55); Marion C. Fetner, Sr., W4BEN (55); Horace A. Morris, W4KZ (60); D. Lowell Peterson, W9EDG (65); Ralph C. Scott, K4AWY (55); E. Linwood Sikes, N4LS (60) and Francis E. Woodridge, W4IZD (60). In the picture above, the pleasant expressions belong to (seated L-R): J. T. Lyman, W4FMZ; Marion C. Fetner, W4BEN; Bennett G. Davenport, W4GCJ (standing, L-R) D. Lowell Peterson, W9EDG; Wells E. Burton, N4EE; Ralph C. Scott, K4AWY and Francis E. Woodridge, W4IZD.

In the picture below, Cecil A. Sills, W4HDO (left) displays his Meritorious Award for unusual dedication and service to QCWA and amateur radio, and Arthur C. Winter, W2ADE (right) displays his Century Club Certificate, commemorating a total combination of 100 years of membership in QCWA and service to the public via amateur radio.



PELICAN CHAPTER No. 128

Don Bice, W4PCO
5511 18th Avenue North, St. Petersburg, FL 33710

In order to encourage more active participation (and a little competition on the local level) in the QCWA QSO Parties, President Jay Strom, K9BSL and the Directors of Chapter 128 decided to award a unique Call Sign Cup to the Chapter member scoring the most points in this year's parties, CW & Phone. The results for the 1989 event are listed in this issue of the Journal, so check and see who our winners are. The cup will be inscribed with the Winner's call-sign on one side and the QCWA Logo on the reverse. It will be a handsome adornment for the shack, and a great "brag piece" too.

As has been our policy in previous years, luncheon meetings are suspended for the three summer months. However, the regular first Wednesday Breakfasts at the Econo Lodge, 5005 34th Street, N, St Petersburg, and the Saturday morning 2-meter net at 10 AM on the 147.06/66 repeater will be held during June, July and August. We invite all QCWA members and friends to join in for a friendly chat and good fellowship.

We want to thank the many members from out of the area who visited with us during the winter vacation season. We look forward to their return next year for an encore.

CENTRAL ILLINOIS CHAPTER No. 59

John M. Vasicak, W9ZEN
124 North Glen Ave, Oglesby, IL 61348

Thirty-four members and guests were in attendance at the spring meeting of the Central Illinois Chapter No. 59 of QCWA, held at the Village Inn, Tonica, IL, Saturday, March 18, 1989.

President Bob Backlund, KV9A, called the meeting to order at 7 PM. Following a brief introduction, members and guests were served a dinner of superb food from the kitchen of the Inn. Following the dinner members held a brief meeting followed by awarding of a few door prizes.

Entertainment for the evening was provided by W9ZEN, with a narrative and slide presentation of his recent trip to "SP" and "OK"-lands.

The Fall meeting of Chapter 59 will be held the last weekend of October, time and place to be announced later.

FIND BALLOT .. VOTE

Chapter Reports

FOUNDERS' CHAPTER No. 46

David W. Winter, W2AUF
84-26 87th St, Woodhaven, NY 11421

The Chapter's January meeting was held at 14th Street Armory with dinner at 6:30 PM. The Nominating Committee presented a slate of candidates for officers as follows:

KA2IXW - Chairman
W2ICW - Vice Chairman
W2AUF - Secretary/Treasurer

For directors: W2IAP, W2DP, WA2KSK, HB9RS, W2TCR and W2KVG. All candidates were voted to serve the next term.

Max de Henseler, HB9RS, gave a most interesting talk and slide show of the Antique Wireless Museum at East Bloomfield, NY, as well as the new communications museum which he is helping to organize in Switzerland where he is returning when he retires from the U. N. The Museum Audiorama, at Montreux, Switzerland, will be under his direction. We wish him and his XYL, Renata good luck in their new venture.

The March meeting was held at the same location, with dinner and meeting in which W2AUF was presented with his 60-Certificate by Hank, W2ICW, who was chairing this meeting in the absence of KA2IXW. The presentation is shown below.



Net frequencies were announced including the CW net on Wednesday at 8 PM on 7035.

Speaker for the evening was Sy, W2NBT, who presented a very interesting slide show of his trip to the U. K., including Ireland, Scotland and Wales, with the aid of Ham radio. The meeting adjourned at 8:30 PM.

HARRISBURG CHAPTER No. 37

Marshall Stenger, W3KRM
124 Lincoln Terrace
Fayetteville, PA 17222

Chapter 37 regular quarterly meeting was held March 19, 1989, at the Bonanza restaurant in Camp Hill, PA. Upon calling the meeting to order, a moment of silence was observed in honor of our Silent Key members. The Secretary's report was accepted and the treasurer reported a good balance in our account. Dues were not needed.

An election was held with the following elected to serve for the year 1989:

Glen Kurzenknabe, K3SWZ - President
Mike O'Keefe, KR3D - Vic President
R. M. Stenger, W3KRM - Secretary
Joe Macko, W3HQA - Treasurer

New Chapter member Steve Demes, WA3AIR, was welcomed to the Chapter.

Guest speaker was Jeff Winemiller, of PBS WITV-TV, in Harrisburg, PA. Jeff spoke on the remote pickups of the '88 olympics which were held in Korea. His talk was illustrated with a video tape he made while there. His presentation was well received and we all have a better idea how the TV networks gave us the coverage we received.

The meeting adjourned at 2:30 PM, next meeting set for June 17, 1989.

QCWA MEMBERSHIP DUES SCHEDULE

Effective 3/01/89

<u>Term of Membership</u>	<u>Regular Members</u>	<u>Family Members</u>
1 Year	\$12.00	-
2 Years	\$20.00	-
3 Years	\$25.00	\$10.00
Life	\$125.00	\$50.00
LTP*	\$135.00 (3 @ \$45)	\$60.00 (3 @ \$20)

U. S. Members receive all publications via bulk mailing. Canadian/Mexican members receive all publications via first class mail. International members off the North American Continent receive the annual Winter Issue of QCWA Journal via airmail.

Family membership requires one full QCWA member for three-year term - other members in same home may be Family members.

*If LTP program is not completed in one year all funds received are used to extend regular membership at the 3-year term rate.

MEMBERSHIP FEES PAYABLE IN U.S. FUNDS ONLY!

Chapter Reports

SAN DIEGO CHAPTER No. 14

Joe Saugier, K6CD
16820 Avenida Florencia, Poway, CA 92064

Mr. Bruce Humphrys, K0HR, Program Director of the HANDI-HAM System, presented the HANDI-HAM story at the April 23rd luncheon meeting at the Admiral Kidd Officers Club on San Diego Bay.

The January HANDI-HAM Radio Camp at Malibu, CA was featured. President George Mitchell, K6ZE, introduced the program with a slide show of pictures he and Joe, K6CD, took during a visit to the Radio Camp. The HANDI-HAM Radio Camp provides one week, intensive training experience for handicapped newcomers as well as for those seeking upgrades. Bruce Humphrys traced the progress of a severely handicapped 10-year old boy, who had pledged to commit suicide when he became 16, from Novice to Extra Class. Needless to say, suicide is out!

Bruce, a QCWA member, has been involved with HANDI-HAM for 17 years and has seen it grow to serve 6500 handicapped, not only in this country but also overseas. No handicap is too severe!

The high-profile exposure given to the HANDI-HAM Program in Southern California by Chapter 14 is intended to promote contributions from amateurs and others for this non-profit organization. Note the HANDI-HAM advertisement in any QST.

George Mitchell is preparing a pamphlet regarding the Chapter's Survivors' Assistance Program. A total of 48 people including several Chapter 130 members and other guests were present. The next Chapter 14 meeting is scheduled for October 1 (Sunday) at the Admiral Kidd Officers' Club in San Diego.

UPPER MIDWEST CHAPTER No. 8

John L. Hill, W0ZWW
2838 Lake Blvd, St. Paul, MN 55109

After a satisfying exchange of experience, banter and some strange jokes, President Whittaker called the March 18, 1989 meeting to order. Forty-eight persons were present. After each had identified himself the President read a short piece about performing beneficial acts for others.

Matter of business held over from the January meeting were reviewed. Under the heading of new business, the meeting place for the May meeting is to be the Fort Snelling Officers Club, Post Road, Mendota. On a call for other business, Gar Anderson reviewed an ARRL letter telling of the possibility of FCC action making amateurs fully responsible for RFI - without recourse or appeal.

Three winners of the drawing for door prizes received useful items for their shack or workbench.

Robert Wesslund, W0AUS, presented a discussion and demonstration of Loran-C. He explained the action of Master and Slave stations, emitting groups of shaped pulses at precise intervals on 100 kHz, at peak power levels of 400 kW. Custom designed receivers and associated embedded computers utilize the time spacing of these pulse groups to determine the receiver location and provide read-out information expressed in the latitude and longitude of the receiving site.

The meeting recessed at 12:30 PM while members picked up their lunch at the cafeteria and returned to the meeting room where the speaker continued to answer questions about his presentation until the meeting adjourned at 1:30 PM.

LONG ISLAND CHAPTER No. 81

Norman F. Milatz, W2TLC
1836 Gardenia Ave, Merrick, NY 11566

The Long Island Chapter #81 held its bi-monthly meeting at Ming's Restaurant on April 12, 1989. After the Conviviality around the bar and elsewhere we sat down to a dinner that was to be an experiment. It was previously decided to change from the conventional waiter service to a buffet. However, it developed that the restaurant was inexperienced in buffet service and the membership received the dinner with much reservation.

The business meeting was then called to order at 8:45 by the Chairman and after opening formalities, a discussion ensued with regard to a projected visit on May 10 to the U. N. Complex where the U. N. Radio Club had arranged a tour of the facilities for the members and their guests of CONEX of which Chapter 81 is a part. The festivities will begin a gourmet luncheon in the delegates dining room. A large number of members have signified their desire to attend. Our speaker of the evening, Mr. Gerry Harrison, W2ZGA, treated us to a discourse in the use of electronics and computerization in surveillance systems (burglar and fire alarms, etc.) Some sample units were passed around and so an interesting evening was enjoyed by all.

SOUTHERN ONTARIO CHAPTER No. 73

Phil Wharton, VE3RE
Box 183
Waterford, ONT N0E 1Y0

Headquarters has received the announcement of the Spring luncheon meeting for Chapter 73 - to be held May 13, 1989 at the Mohawk Inn, Campbellville, ONT.

Chapter 73 has been working closely with HQ in getting records brought up to date - all records are now in the Secretaries computer and are maintained on a daily basis.

Chapter Reports

SOUTHEAST FLORIDA CHAPTER No. 12

Sid Wolfeld, KJ4AS
7903 SW 104th Street, Miami, FL 33156

Southeast Florida Chapter 12 starts its 26th Charter year with a new President, 60-Year ham, Al Wilcox, W4ELR and Vice President, 50-Year ham Herb Bernard, W4JXA.

The Chapter has been fortunate in attracting some guest speakers for our monthly meeting. Of great interest was Florida Power & Light staff Engineer, Rusty Wheeler, who presented an extremely interesting talk on procedures and techniques to deal with EMI.

Our new President, Al Wilcox, W4ELR, spent eight days down in the fabulous Florida Keys with his XYL and her sister, who is a visitor from Denmark. Al worked a mobile rig and the ladies fished. Regretfully we announce the passing of Jerry Starr, K4PMF, a faithful chapter member. Our sympathy goes to Kitty Starr, K4PME. Secretary Art Rauch, W4VZ and XYL Marion, WB4RFB, motored to Gainesville in their van equipped with a new 10-meter rig - had a great time visiting their son, and the rig worked like a million. We miss Stan Offenhutter, K4BLM, and his bride of over 50 years, at our meetings. Stan has been experiencing physical problems and has been unable to attend. Our VP, Herb Bernard, W4JXA, has rounded up an impressive group of guest speakers for our summer meetings. Among them is Bell Telephone engineer, Manny Mancholli, a well known expert on fiber optic communications practices and techniques. We are looking forward to these future technical programs.

Southeast Florida Chapter meets every third Saturday, year round, at "Denny's" restaurant on NW 36th Street in Miami. We offer outstanding ham camarade, a fifty/fifty cash drawing and the usual Denny's food, including senior citizen specials. All hams are cordially invited.

SACRAMENTO VALLEY CHAPTER No. 169

Paul Wolf, W6RLP
4812 Peale Dr, Sacramento, CA 95841

Newly formed Sacramento Valley Chapter No.169 of QCWA held its first meeting on Wednesday, April 12, 1989, at Carrow's Restaurant in North Highlands, near Sacramento, CA. There were 15 Charter Members in attendance, as follows;

Charles Eder, W6LOE
Richard Thompson, W6IAP
James Allen, W6IQH
Ted Rast, W6SMU
Cy Cochrane, WB6KZN
William Hendrick, NS6D
Marion Henson, W6NKR
Norm Brooks, K6FO

Roy Matthews, N6BD
Armand Nobel, N6WR
Chifton Adams, K6ON
Marcia Rast, K6DLL
Glenn Koropp, W6YFW
Paul Wolf, W6RLP
Bob King, WA6UNL

Officers for the Chapter are:

Glenn Koropp, W6YFW - President
Paul Wolf, W6RLP - Vice President
Bill Hendrick, NS6D - Scty/Treasurer

Golden Anniversary Awards were presented to:

Dick Thompson, W6IAP
Marion Henson, W6NKR
Jim Allen, W6IQH
Roy Matthews, N6BD
Paul Wolf, W6RLP



The Chapter meets at 8 AM on the 2nd Wednesday of each month at Carrow's Restaurant, 4601 Watt Ave, near Interstate Hwy 80, in North Highlands, a few miles north of Sacramento, CA. The next meetings are scheduled for May 10, 1989 and June 14, 1989. All QCWA members and interested visitors are cordially invited to attend the meetings. For more info contact Paul Wolf, W6RLP phone 916 331 1830.

REPORT ON CHAPTER 4 DINNER MEETING

Albert E. Mowery, W7CI
3712 39th SW, Seattle, WA 98136

The Northwest Chapter met at Centralia, WA in the Lewis & Clark Hotel banquet room on April 29, to check in with Roy Myklebust, W7GYB. During the checkin period we also had our Happy Hours, greeting old friends and picking out our seating places. Well over 100 attending, it was the biggest turnout in history of the Chapter. With Vice-Chairman McLaughlin in charge, the chapter business was handled, getting reports of the Secretary/Treasurer, Chapter representative and NCS of the local nets, all of which were accepted. We then watched presentation of the Meritorious Award to Dewey Wilson, for his well-done running of the Historian position, as Dewey has done that job since the chapter was organized. It turned out that Dewey, W7HF, was also presented with the Diamond Anniversary Award, 75 years as a Ham! God, How

Chapter Reports

old is he?

Many Golden Anniversary Awards were handed out for 70, 65, 60, 55 and 50 year terms. I was lucky to get a 55 year sticker on mine - two more years for the 60!

Jim Walsh, W7LVN, QCWA Secretary, a candidate for President of QCWA, gave us a report of forming of the Oregon Trail Chapter and of a chapter being formed in the Yakima area.

Meeting was adjourned about 9:30PM for a photo session for the recipients of the Golden Awards!

UTAH CHAPTER No. 160

Maryellen Vaughan, KA7ZRW
Ivins, Utah

Mesquite, NV, 2-21-89, informal gatherings took place in the afternoon with all meeting at the convention center at 5PM. A total of 33 were present. We had representatives from 4 Chapters, Hoover Dam, No. 44; Treasure State, No. 104; Leo Meyerson, No. 154 and Utah, No. 160. A group pix was taken by W7PBV. At 7PM, we left the center and went to the buffet for dinner. Several met for breakfast the next morning before each went his way.

Salt Lake City, UT, 5-3-89, annual dinner meeting was held with a total of 60 present, address of welcome by W7UG, Buck Buchanan. Introductions were made and as they talked, a video was made of each and their partner. It was voted to keep the present officers for the year 1989.

The next gathering will be at WIMU'89 in Jackson, Wyoming.

CHATTANOOGA CHAPTER No. 115

Charles E. Curle, AD4F
8719 Snow Hill Rd, Ooltewah, TN 37363-9628

Chattanooga Chapter #115 has asked members to report their chapter affiliation to headquarters. Chapter President Joe Duncan, W4ECW is interested in getting Chapter records up to date in the HQ file.

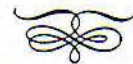
The April 18 meeting was scheduled to have Mr. Jerry Hatcher, TVA speaking on nuclear safety.

FIND BALLOT
.. VOTE

Diamond Jubilee 75 Years in Amateur Radio



George D. Wilson, W7HF and Jim Walsh, W7LVN
at the official presentation of
the Golden Certificate marking the 75th
Anniversary of George's First Amateur License
7GW, issued in the year 1913
Presentation made at Northwest Chapters
Annual Meeting, April 29, 1989



QCWA ANNUAL BANQUET

The Annual QCWA Banquet, a tradition in the Washington area, was held April 8, 1989. The meeting was a success by any standard, as it has been for many years. If you haven't attended one of these gatherings, make plans for the next years bash!



Photo by K4EUX

Pictured above, Chuck Dorian, W3JPT, at right, received his Golden Certificate from QCWA President, Leland Smith, W5KL in ceremonies during the 1989 Banquet Meeting.

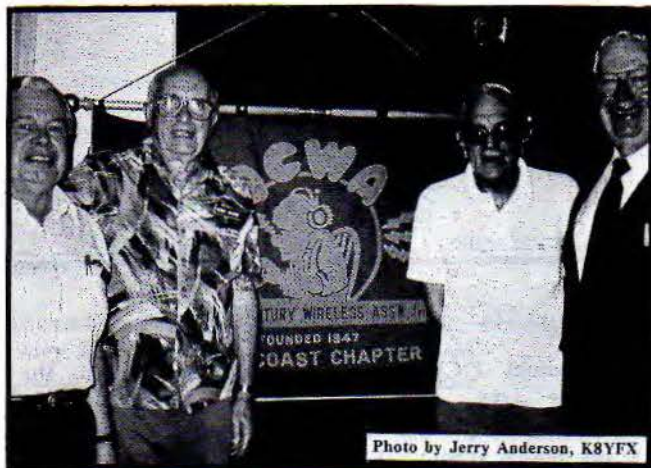
Chapter Reports

GULF COAST CHAPTER No. 131

Earl Edighoffer, KD1U
East Truman Dr, Holiday, FL 34691

The monthly chapter meetings for January through April have been well attended with 38 to 51 members and guests at each gathering. A May meeting at Leisure Beach Inn, Hudson, FL and a June picnic at John Chestnut Park in Tarpon Springs are scheduled. Activities of the chapter are on the first Tuesday of each month at 11:30 AM - visitors are welcome!

At the March meeting, Harry Miles, W2JKB, with an assist from his wife, Frances, gave an interesting and informative talk with pictures of their recent trip to New Zealand and Australia. All who heard this travelogue now have a better knowledge of the people, their customs and lifestyle, the topography and weather conditions in these two countries. The balloon trip taken by the Miles in Australia must have been great fun.



Above, Chapter 131 Officers - L-R,
Earl Edighoffer, KD1U, Secretary; Henry
Wroblewski, WA4GIE, Vice President; Fred Morgan,
W8FOU, Treasurer and Will Summers, K2BOQ,
President

Henry Wroblewski, WA4GIE, arranged for new QCWA name badges for all interested in acquiring them. President Will Summers, K2BOQ, urged all members to send in their vote in the QCWA opinion poll about regional directors and associate members. At least six chapter members were in the QSO Parties. The Chapter net with Erv Donadt, WF4V, as net control continues to be active with 12 to 15 regulars calling in every week. News from the QCWA Hotline and the Sunday QCWA 20 meter net are given as well as sun-spot activity courtesy of Mert Beaubian, W8VHV. The net meets Tuesday mornings at 9 AM, local on 28,750 kHz - all QCWA members are urged to check in.

have you voted ?

SOUTHEAST WISCONSIN CHAPTER No. 162

Robert N. Jensen, W0WLN
5616 Cambridge Ln #6, Racine, WI 53406

The Chapter held its annual Valentine party for members and wives on February 19, at Dee Dee's restaurant in Racine. Comic valentines were presented to members present after a fine meal. Three plants used as table decorations were given to three of the ladies present.

The regular March meeting at the Around the Clock restaurant in Racine on the 20th was well attended. Ed Westberg, WA9Y, presented the chapter a very home-brew code practice oscillator and key for use in the ham radio demonstrations being put on in local schools by the chapter. A Novice course is scheduled by three members at a local "middle" school, starting in April. Plans were made for a joint picnic with a local ham club in August.

The second anniversary party was a pot-luck brunch on April 16 at the Green Ridge Condominiums recreation center. Plans were made for a June social meeting with the place chosen by the ladies. This will be the annual "Show & Tell" meeting. Prexy Ed Konicek, W9NVK, suggested the secretary send copies of the letter in the latest HLR to all members, encouraging them to write to the legislators listed regarding the oral arguments by ARRL on the 220 MHz controversy. This was done. It was also decided that the Chapter would use 146.5 MHz simplex as an alternate frequency for the weekly on-the-air meetings on Thursday nights at 9PM if the local repeater was already in use. African violet plants used as table decorations were won by three of the ladies present.

CENTRAL NEW JERSEY CHAPTER No. 138

George W. Hasslinger, WB2CGI
61 Rues Ln, East Brunswick, NJ 08816

The Chapter's eighth annual dinner meeting occurred April 23, 1989 at the Elk's Lodge in Long Branch, NJ. A social hour preceded the fine dinner. Newly elected Chapter officers were installed, as follows:

Jerome M. Havel, W2RRX, President
George Miller, K2FD, Vice President
Harold Clanton, WB2CJE, Secretary
Arnold Peterson, AB2N, Treasurer.

A moment of silence was held in memory of members who have passed on since the last Chapter meeting- Charles Haas, W2HIA; Irv Gallagher, W2CRW; Andy Deglman, W2AZP.

Certificates were issued to deserving members. Elmer of the Year Award went to Robert Bissett, ND2L and George Wright, NK2P, shown below, L-R, with President Jerome, W2RRX, center, who made the

Chapter Reports

Awards.



A Special Certificate of appreciation went to Daniel J. Gauthier, W2FUP. Diamond Jubilee Certificates were awarded to members who reached the age of 75 years and who have received a Golden Certificate for 50 years of continuous licensing from QCWA. Those so honored were: Samuel Rubinstein, W2BOK; Eric W. Cruser, W2DYR; Donald Brown, W2EAM and Harry L. Landau, W2TX. The Past Presidents Award was given to our outgoing President Michael B. Ruggiero, W2NVR. The oldest Ham Operator Award was given Ira Myers, W2SVJ.

Twenty-five of our 82 guests and members were lucky winners of nice door prizes donated by generous Chapter Members and local businesses. Our members and guests then enjoyed a fine presentation on Fibre Optics, entitled "Kaleidoscope of Messages, presented by New Jersey Bell Telephone Company.

VIC CLARK CHAPTER 91 ANNUAL BANQUET

The 33rd annual Banquet of QCWA for the Washington area was held April 8, at the Officers Club at Bethesda Naval Medical Center. The Affair was co-sponsored by Chapters 23 and 91, with both Chapter presidents on hand - Jack Kelleher, W4ZC for Chapter 91, and Granville Klink, W3AFV, for Chapter 23. QCWA President, Leland Smith, W5KL and his wife, Helen, WA5WAR; QCWA Secretary Jim Walsh, W7LVN; John Swafford, W4HU, candidate for Secretary of QCWA and Past President Stuart Meyer, W2GHK, and Ethel Smith, K4LMB, Past Vice President of QCWA were present for the meeting.

W5KL was speaker of the evening and spoke informatively on the proposed no-code licensing studies. President Smith presented a number of QCWA Golden Awards with Frank Kratokvil, K4RE, Charles Dorian, W3JPT and George McLeod, KU3Y all receiving their special awards.

This is one of the premier meetings of each year-plan on attending in 1990!

MISSOURI CHAPTER No. 19

Melvin Mayo, N0AQH
206 Hillsdale Dr, Ballwin, MO 63011

Among Chapter activities was the presentation of the QCWA Golden Award, endorsed for 55 years of service, to Jim Burkhart, W0BA (at left), by Chapter President, John Davison, N0AFN (right).

The award was presented at the meeting held on January 19, 1989.



NORTHERN LIGHTS CHAPTER No. 92

Roy C. Gould, N6GM
7121 East 34th Ave, Anchorage, AK 99504

Our picnic chairman, John Trent, KL7DG, has selected Saturday, June 10, 1989, as the date for the first summer picnic. The location will be Russian Jack Park, in Anchorage. Entrance to the Park is on West side of Boniface near DeBarr Rd and Carrs Market - at noon! Bring your own eats and drinks, the Chapter will furnish briquettes for the barbecue grill. If you need more information, call John at 563 6297. At that picnic we decide on the date and location for the next summer picnic.

NORTHEAST INDIANA CHAPTER 159

Howard Knepper, K9KAL
PO Box 455, Auburn, IN 46706

QCWA Chapter 159 is doing well here in Northeast Indiana. Sunday, June 11, will be our quarterly meeting, and some of the "snowbirds" who go south for the winter will be with us possibly making this meeting one of the largest!

Silent Key Members

Cook, Richard H	W1ATX	1,301	1985
Loughlin, T Warren	K1GZP	17,648	1989
Stevens, Francis K	W1KMS	19,887	1989
Golden, Gerald M	W1OZ	19,415	1989
Bonham, Guy I	WA1ZHD	12,280	1989

Degelman, Andrew G	W2AZP	16,022	1988
Sabo, Frank	K2CSY	18,333	1989
Brasted, Claude H	W2FAL	5,085*	1989
Holden, Wyman N	K2GB	1,485	1989
McGlashan, Alexander	K2GIN	2,934*	1989
Hass, Charles A	W2HIA	2,477	1988
Hatler, Frank J	K2JH	1,503	1989
Takacs, Frank G	W2MFF	9,387	1989
Countess, Julius	K2VYD	17,775	1988

Green, Howard W	W3DHM	16,732	1989
Jackson, W F	W3WW	5,637*	1989

Gessford, Ross K	KA4BBT	16,558	1989
Keys, Robert T	W4CBI	17,861	1989
Lynch, James T	N4CPJ	11,432	1989
Robinson, William J	W4FJN	10,016	1989
Cook, Earle F	W4FZ	4,771	1989
Drougalis, John V	K4IFG	870	1989
Coates, Fred E	K4LC	3,775*	1989
Carpenter, Harold L	K4JTJ	5,723	1989
Glass, Carter III	W4JUK	3,961*	1989
Fullmer, Arthur H	K4KCR	16,481	1989
Coates, Fred E	K4LC	3,775*	1989
Meadows, Aubrey U	W4OLM	18,544	1988
Howe, W A	W4OZN	11,762	1989
Starr, Jerry D	K4PMF	19,099	1989
Ross-Clunis, Hayden	K4RC	19,599	1988

Allen, S Paul	KI4RN	16,123	1989
Pascoe, Chester	NO5B	15,000	1988
Thomas, Robert P Jr	W5EPB	6,002	1989
Hawkins, Richard L	W5FW	6,711*	1989
Galloway, Samuel	W5RHE	12,887	1989
Garrett, John H	W5WC	7,050*	1989
Goss, Frank A Jr	W5YXD	8,824*	1989

Erickson, Vernon F	KS6A	9,151	1989
Byrne, John D	WB6DUF	6,881	1989
Dery, George P	W6HG	2,278	1987
Sims, J B	W6PWT	12,725	1988
Becker, Herbert	W6QD	3,238*	1989
Eitel, William W	W6UF	2,514*	1989

Robertson, Charles A	W7BVH	1,964	1989
Rathbun, Walter R	W7FW	3,883	1989

Neff, Robert A	W8HSM	18,955	1989
Bellows, Harry G	KB8MX	15,072	1987
Marino, Peter T	W8PBZ	13,049	1989
Hassett, Joseph L	W8PVB	6,392*	1989
Zimmerman, R F	W8ZM	5,662	1989

Westerville, Eugene	W9DRJ	794	1989
Anderson, Carl V	W9FIJ	21,089	1989

Gates, Lester L	W0BSR	13,716*	1989
Horseth, William	W0GLE	17,755	1989

Duret, Rene	F9TE	8,861*	1988
Ulatowska, Andrew	SP2UU	18,932	1988

QCWA BOOK REVIEWS

40 YEARS OF HF MOBILEERING -- A COMPENDIUM

Reviewed by Gene Williamson, K7DBV

Every so often there comes along a volume so remarkable, so one-of-a-kind, that this reviewer can only recommend: if you should buy just one ham book this year, make it W6AAQ's. Don Johnson's self-published labor of love -- "40 Years of HF Mobileering -- A Compendium" -- is nothing less than a dazzling detour back through four decades of time. If you were on the air July 15, 1948 -- the very first day American hams were permitted to operate mobile on 80, 40, and 20 -- reading this book will make you young again. (As young as you were in 1948, that is!)

Remember the California Bay Area 3995 Mobileers? How about current loop antennas? Air wound coils, "zee" matches, dynamotors . . . Carter modulation, the Gonset Super-6, Webster Band-spanners? You'll find them all in this book . . . and more. Sprinkled through the 115 pages of the First Edition are numerous magazine reprints: a full-page ad for the Eico 753, ditto the KWM-1; Wayne Green's review of the Gonset G-66; ads for the PMR-7, Master Mobile Mounts, Multiphase exciters and amplifiers. You'll certainly want to re-read articles on auto-tuning mobile antenna matching systems from QST and CQ

-- and rediscover the "Weird 2 Band Mobile Antenna" Don wrote up in the October 1976 issue of 73 Magazine.

There's plenty of useful information for mobiling into the 1990s, as well: Installing rig and antennas, stringing cables, battery connections. You'll find valuable hints on antenna mounts and masts, choosing the right coax, and hamming in RVs -- mobile or parked. Plus, for the forgetful, Don's included a truly delightful cycles-to-Hertz conversion chart you won't want to be without.

Captivating, fascinating, spellbinding . . . I've worn out my thesaurus finding adjectives to describe this book. My thanks to the ever-vigilant Jim Walsh, W7LVN for recommending it to me -- and for signing up Don as a QCWA member! I can't imagine any long-time ham not thrilling to the incredible nostalgia (and knowledge) contained in this unique volume. As of January, 1989, Don's on his 2nd Edition, 3rd Printing -- a popular book, indeed. Order your copy of 40 Years of HF Mobileering by sending \$10.00 (\$10.60 if you're a California resident) to Don Johnson, W6AAQ, Box 595, Esparto CA 95627.

Chapter Reports

INLAND EMPIRE CHAPTER No. 130

Bob Rickey, NF6P
8532 Red Hill Country Club Dr
Rancho Cucamonga, CA 91730

Our spring meeting was held April 1 at the Officer's Club, March AFB. Forty-three members and guests attended including National Vice President Hugh Winter, W5HD and his charming bride, Dorothy. After a relaxing lunch, a bit of small talk and the usual announcements, President Walt Joos, W6EKM, introduced Hugh Winter, speaker of the day, who brought us the spark sounds of yesteryear. It was an education for the younger members who had never heard the sound of spark transmission and brought a bit of nostalgia to some of our older members. By way of a recorded tape Hugh reproduced the sounds of the various spark devices and narrated their development. It was all there except the odor of ozone. The development of spark devices came along rapidly after Marconi's first successful wireless telegraphy in 1895 over a distance of approximately one mile. The spark coil with a straight gap was followed by the much more powerful high-voltage transformer to supply the energy. Next, the rotary gap with its much sharper signal allowed 2 or 3 stations to be on the "200 meter" band at one time. These non-synchronous gap machines had a distinctive tone in the range of 200-1500 Hz, depending on how fast the rotor was turning and how many sparking electrodes they had. Finally, the ultimate arrived, a synchronous gap type machine in which the number of electrodes and rotor speed were adjusted to fire at the same relative point in the supply cycle.

On January 17, 1921, in the first post WW-I attempt, a message was transmitted round trip from the east coast to the west coast by amateur relay stations in only 6 1/2 minutes. Wireless telegraphy by amateurs was demonstrated!

Hugh received both the amateur and commercial licenses in 1930 and was a police and broadcast operator in Minnesota during the 1930's. He was in the U.S. Air Force from 1942 to 1968 and was a consulting engineer from the time of discharge until 1972. He was a professor at the University of New Mexico at Albuquerque in the 1970's and early '80's. He has been fully retired since 1983, but has been active with local and national organizations.

Authors Note: Wireless telegraphy was necessarily preceded by several interesting developments. In 1819 Hans Christian Oersted (1777-1851) observed, by using a magnetized needle, that a magnetic field was set up by the flow of current through a conductor and that the field was at right angles to the conductor. This fundamental relationship between electricity and magnetism was essential to the development of the theory of electromagnetic

radiation. Michael Faraday (1791-1867) carried Oersted's work further. In 1831 he plotted the magnetic field of a current carrying conductor, discovered electromagnetic induction and demonstrated the induction of one electric current by another. Next, James Clerk Maxwell (1831-1879) expanded Faraday's work. He studied the properties of electromagnetic radiation and concluded that light waves are electromagnetic phenomena. He published his work "Treatise on Electricity and Magnetism" in 1873. Next, Heinrich Rudolph Hertz (1857-1894) conducted a series of experiments which clarified and expanded Maxwell's theory. He demonstrated, by means of the spark of an induction coil, that electricity can be transmitted in electric waves. He thus led the way to the development of wireless telegraphy and radio. Marchese Guglielmo Marconi (1874-1937) put it all together by inventing the first practical radio signalling system. He succeeded in transmitting over a distance of 1 mile, in 1895, across the English Channel in 1889 and across the Atlantic in 1901. His system was improved rapidly. A transatlantic wireless telegraph service was established for public use in 1907. Sometime in this era entered the radio amateurs and the now senior members of QCWA.

GATOR CHAPTER of QCWA

Eli Nannis, K4JMH
14996 Imperial Point Dr, W
Largo, FL 33544

The attendance at the April 1st meeting was 37 members and guests. Guests W2IAJ and W3WM were welcomed. Lou Weber, K4HWS gave the invocation followed by the Pledge of Allegiance. The next meeting will be held on Saturday, May 6th. This will be the last official meeting but we will continue to meet the first Saturday of each month, but no business will be handled. Our treasurer, Bill, W2WV, filed a quarterly statement showing 808.82 on hand. Our largest expense is for postage. Paul, W1DLP, reported that Rex, WB4AFQ is home from the hospital. We were glad to see Tom, K4IJC at the meeting. He had a serious operation on his jaw, but he is still able to eat that good food at Stacy's. Erle, K4JF, reported that the chapter net on 37/97 is getting better - Saturday mornings at 9 AM. Phil, K8THT, had a birthday this month.

The program was given by Lt. Mark Feldman, Personnel Services Officer U. S. C. G. air station. He is a helicopter pilot and he gave a very interesting talk on how the Coast Guard do their search and rescue and also drug enforcement procedures. His program was followed by a question/answer session.

A big thank you too Bill, W4STX for excellent programs each meeting. The Florida State Net is now on 3955, at 8 AM.

Chapter Reports

CLEVELAND CHAPTER No. 1

Robert Bloor, W8LYD
24338 Smith Ave, Westlake, OH 44145

On April 15, 1989, the Cleveland Chapter #1 held it's spring Membership meeting with 85 members, XYLS & guests. The QRM was as bad as solar flares and after being talked out, for HAMS, we all had a fine lunch. Chairman W8WGO, conducted a short business meeting. During the meeting the "220 problem" was discussed and membership unanimously approved the use of Chapter funds to prepare letters to congressional members asking their assistance in getting the FCC to grant a hearing to the ARRL. These letters were mailed to each of our 120 members for their signature and mailing, W8PBZ, the QSO Party Tally Committee Chairman, introduced the members of the Committee who were: K8BB, W8LYD, A18M, K8SGM, W8UYN, W8WAB AND W8WGO. W8LYD, Committee Secretary, reported the Committee's work was about finished and all logs would be sent to W1ZEN on Monday, April 17. The Committee handled over 315 logs which had almost 1600 Log pages and over 28,000 contacts. The Committee reported that about 99% of the logs were in excellent form and they had no trouble in reading them. The Committee wants to compliment all of the members for their fine work preparing the logs.

We were notified that a picture of the Committee which was scheduled to have been printed, was accidentally destroyed in the printing process. A replacement picture has been requested and will run the the Fall Issue of the QCWA Journal.

W5EJ

The Committee pictured above, L-R are:
W8PBZ, seated,
W8WAB, K8BB, W8WGO, K8SGM, W8UYN, W8LYD
A18M not present for picture

W8OXA, the Chapter's Net Manager and net control reported the Wednesday Evening 2-meter Net is averaging about 50 check-ins each week.

After the meeting, W8WGO introduced the featured speaker, K8LM, a local practicing attorney, who discussed the need of preparing a will. This talk was well received and audience participation required that W8WGO interrupt the Q & A session to bring the meeting to a close. All members present expressed their appreciation to K8LM for his fine program.

MIDCONTINENT CHAPTER No. 35



Photo by Cass Cassing, W0GJG

Bill McGrannahan, K0ORB hands QCWA application to new member Boyd Bettis, K0IXC while Larry Reeves, WA0GKZ looks on

SPRING FUNFEST PROBLEM ANSWERS

Problem	1	2	3	4	5
Answer	16/64 19/95 26/65 48/98	12x12=144 21x21=441 13x13=169 31x31=961	10968	3	5
W2TDN	3 of 4	OK	OK	3	5
W1RUJ	2 of 4	NG	OK	3	5
K8LIX	2 of 4	NG	OK	3	5
NC2O	0	OK	24	5	
W3TDF	1 of 4	NG	OK	3	2
W9KJ	1 of 4	OK	?	2	5
N6CGB	1 of 4	OK	OK	3	5
K3CH	3 of 4	OK	OK	3	5
W1DO	3 of 4	OK	OK	3	5
W0SYU	4 of 4	OK	OK	3	5
N1BFK	3 of 4	OK	OK		5
W7MAI	0	OK	OK	3	5
W2CC	3 of 4	OK	NG	3	5
KI4V	3 of 4	OK	OK	3	5
W4AYF	3 of 4	?	OK	3	5
W9PPH	3 of 4	OK	OK	3	5
K9BL	4 of 4	OK	OK	3	5
KA2FFI	0	OK	OK	1	2
W1YOC	2 of 4	OK	OK	3	5
K8KVN	3 of 4	OK	OK	3	5
W6EL	4 of 4	OK	NG	3	5
WT6A	4 of 4	OK	OK	3	5
W1KUL	0	OK	OK	3	5
W4UQ	3 of 4	OK	OK	3	5
W2OR	3 of 4	NG	OK	3	5
W3EEI	3 of 4	OK	OK	3	5
W8IM	0	OK	OK	3	5
K8ETU	2 of 4	OK	NG	3	0
W7CZL	2 of 4	OK	NG	17	5
K7BHM	3 of 4	OK	NG	11	5
W0WNY	3 of 4	OK	OK	3	5

SUMMER FUNFEST PROBLEMS

1. Here is a problem attributed to LILIVATI (1150 A.D.). Beautiful maiden, with beaming eyes, (obviously a ham) tell me which is the number that multiplied by 3, then increased by $\frac{3}{4}$ of the product, divided by 7, diminished by $\frac{1}{3}$ of the quotient, multiplied by itself, diminished by 52, the square root found, addition of 8, division by 10, gives the number 2? 28

2. When 324 and 900 (the squares of 18 and 30) are put together, the result is, 324,900, the square of 570. Only there it happens there are two zero in the combination. Now, find two three-figure square numbers, without using zeros, that when put together, will form a six-figure square number. Remember, no zeros.

3. If every vertex of a regular octagon is connected to every other, how many triangles will be formed. Be careful if you draw this one out, there are more triangles than you may think.

4. The following is not a Hams name, but a sign. "C LOOPSEEND" Where would you see it and what is missing?

5. In the harbor at Tampa, FL, a ship is waiting for docking space. A rope ladder is hanging over her side. The rope ladder has ten rungs. The distance between each rung is 12 inches. The lowest rung just touches the water, and the harbor is dead calm. There is a Coast Guard Cutter 12 miles offshore, approaching the vessel, and the tide is coming in. The Coast Guard is approaching at 4 knots/hr and the tide is rising at a rate of 8 inches per hours. The Coast Guard must reach the ship and board her before the water covers the eighth rung from the top rung of the ladder. Will the Coast Guard reach the ship before the water covers the eighth rung of the ladder? Explain. Send your answers to:

Harry Neben, W9QB, 1151 Fairway DR, Dunedin, FL 34698

Chapter Reports

DEL-MAR-VA CHAPTER No. 150

George S. Williams, W3PVO
730 Marshall St, Milford, DE 19963

In the picture below, Joan A. Flower, WA2ICE, the only female member of Del-Mar-VA chapter No. 150, is shown while on her DX-pedition on Little Cayman Island, in the Caribbean. It was May 16-20, 1988. She used the station of Ron Sefton, ZF8SB. It consisted of an I-COM 730 to a two-element quad on 10/15/20 and a dipole on the lower frequencies. Joan contacted 77 countries and 48 U.S. states.



Joan was desirous of working DXCC and WAS from that location, so she returned to Little Cayman from November 28-December 3, 1988. On the second trip she did work 82 countries and all fifty states. Since Hurricane Gilbert occurred between the two trips, Joan is putting video and still photos onto a tape showing the damage to the beach front along with pictures of her DX-pedition.

YANKEE CHAPTER No. 112

Onie Woodward, W1ZEN
14 Emmett St, Marlboro, MA 01752

Yankee Chapter held its annual meeting, April 22nd at Franklin Manor, West Boylston, MA. The weather was beautiful (a regular Yankee Chapter Day)! There were 30 members and 10 guests present. Each one found a handmade tulip at their place, making the tables very spring-like. A meeting on September 30th and a Christmas Party, December 2nd, were planned. The Officers for 1989-1990 were elected as follows:

Al Fruzzetti, W1JJJ - President
Len Hadley, W1YGC - Vice President
Onie Woodward, W1ZEN - Scty/Treas.

Two Board members were elected - Joe Santangelo, N1JS and John Rhilinger, KC1MI.

Milt Chaffee, W1EFW, spoke to the group asking for their support when the QCWA Ballots come as he is a Nominee for the office of Director. Everyone had a very fine lunch - Fifty-year certificates were presented to Joe Santangelo, N1JS and Harry McDade, WILMU. It was announced that Charles Austin, W1INN been awarded his Golden Certificate and George Caron, W1EQ, had received the QCWA Century Club Certificate.

GERMAN CHAPTER No. 106

As can be seen from the QSL card below, our German Chapter friends have been busy - the card came from Leland Smith, W5KL, who sent it over for a look-see. He received it for having made a contact last December.

The German Chapter has as near the QCWA call as is possible. You can get a card like this by contacting members of the Chapter, so watch out for them.



The card is royal blue, orange logo and black call-letters - you can nearly see it in the dark

- Editor -

PITTSBURGH CHAPTER No. 6

John E. Hoffer, W8CWY
Box 165, RD #2
Wellsburg, WV 26070

Pittsburgh Chapter No. 6 held its spring meeting April 23. The Chapter Secretary is working to get all membership records updated looking toward getting the HQ listing of Chapter members properly listed.

John is former President of the Canton Ohio Chapter with which he was associated for many years. Looking forward to getting an antenna up so that he can check into the Sunday QCWA national net.

Barney's Exchange

Managed by Barney Moffatt, W5CJZ
5714 Trail Meadow Dr, Dallas, Texas 75230

Barney's Exchange has been a popular feature of the Journal for lots of years now - it's free to QCWA members. If you want to advertise for an item, or to get an item, write to Barney with details. He'll get it published.

Rules: 1. List what you have, or need clearly!

2. List what you will accept in trade
3. List asking price if for sale
4. Hold merchandise until after the Journal is published
5. Answer all inquiries

Neither QCWA, its Officers, Directors or General Manager assume responsibility for loss or misrepresentation. Let us know if you have problems of any sort.

WANTED; Any bakelite panel Collins transmitter - in any condition - will trade later Collins gear or will purchase outright.

Parker Heinemann, WIYG
745 16th Ave South
Naples, FL 33940

WANTED: Johnson Matchbox, 250 watt model. Wanted, a set of mobile antenna coils (large size).

Tony Landry, W4MJG
Box 246 Messersmith Rd
Lake Lure, NC 28746

FOR TRADE: Two E. F. Johnson 154-15 variable transmitting capacitors, 150 pF, 0.125" spacing, 4,500 V, with stand-off insulators. Suitable for QRO linear or tuner.

WANTED: Components for ARRL Handbook SPC transmatch (200 W)

Eugene P. Simon, W2KOY
12 Remington St, #206
Cambridge, MA 02138

NEED a Murdock nameplate, size approx 2.5" x 0.5" for my restoration of a "basket case" Murdock rotary spark gap. Will pay a reasonable amount for one!

Leo Gibbs, W8BHT
701 Brookfield Rd
Kettering, OH 45429

FOR SALE: Brass Keys, Automatic Telegraphy Machines, Sounders, Practice sets, all kinds of Antique Telegraph equipment. Send \$1.00 for telegraph catalog.

W. C. Hess, W6CK
PO Box 19
Pasadena, CA 91102

HARD-TO-GET aviation books including titles with Ham radio contents by Don McVicar, VE2WW. For free catalog write:

Don McVicar, VE2WW
Box 287
Dorval, QUE H9S 3K7
Canada

WANTED - old communication receivers for collection. Hallicrafters S7 or earlier-National HRO old models-Hammarlund Comet - RME69 - etc. Find a good home for an old friend.

Dave Medley, KI6QE
1450 Bayview Heights Dr.
Los Osos, CA 93402

FOR SALE: Westingale Model 3R receiver, made in Chicago - 3 UV-199 tubes - regenerative detector plus two audio. Clean, working condition.

Jack Kennedy, W5DJ
5739 Lindenshire Ln
Dallas, TX 75230
214 661 2503

WANTED: Main dial locking mechanism for SX-28 Hallicrafter receiver. WW-II Navy GP-7 xmtr. National NC-101-XA receiver.

Paul Gregg, W9POC
725 College Way
Carmel, IN 46032
317 846 3094

WANTED: Zenith Model K526 table top radio (AM only). If you have or know of one contact:

Clarence H. Smith, KA8PJJ
17845 144th Avenue
Spring Lake, MI 49456

WANTED: Six National XR-50 half-inch diameter coil forms with ferrite slugs; one filament xfrmr for 4-1000A tube (7.5 V @ 21 A)

Don Christensen, W8WOJ
1179 Grey Rd
Midland, MI 48640

WANTED: Murdock long-wave crystal rcvr (1912-13); Vol 1, No. 1 QST; First Edition ARRL Handbook (1926).

Bill Ross, KY9M
1124 Tower Rd
Winnetka, IL 60093

FOR SALE: Framed panoramic photo of entire 305th Cavalry Regiment at Camp Stanley, TX taken 8/15/18. Photo 8" x 47", framed in xclnt cdx, all horse with supply wagons.

R Truhlar, W9LNQ
1701 W 101st St
Chicago, IL 60643

FOR SALE: National HFS & pwr supply - includes tubes, coils and copy of SamsFact. Rough appearance, bottom plate missing. Chokes in p.s. shot. Tubes good, working but needs TLC - \$75!

L. E. Darby, K4GCV
5625 Beneva Woods Cir
Sarasota, FL 34233

FOR SALE: Old timer selling over 65 year run of QSTs - July, 1923 thru Dec '88 - 786 complete issues all with covers & pages. Price \$0.15 each, all or none. Will pack & ship, your cost.

Merrill Eidson, W5AMK
PO Box 3751
Temple, TX 76505

WANTED: Two books - Highways & Byways of Berkshire; Highways & Byways of Hampshire, by Kingsley. Trade Heath DX-100 (1 hr dummy load) cabinet still in box, or NC-173,

QCWA PARTY LINE

needs work, and choice of almost new VIC 20 or never used Commodore Plus Four

G. Paul Gerbracht, W3QPP
2114 West 29 St
Erie, PA 16508

NEEDED: To finish WW-II B-24, complete radio restoration project. BC450 control box (rec), BC451 control box (trans). BC461 control box (ant reel), 2 BC366 SW box, 2BC 345 SW box, RL42 ant reel unit, 2 FL 5C filters, DM 28 dynamotor assy (BC-348 rec), BC306A (ant tuning unit), TU6B & TU10B (tuning units), 2 PL59, 1 PL61, 1 PL64 (BC 375 trtans). Data or name plates only (metal) for the BC458A, BC456, BC442 and DM33A. Please include prices with info

Russ Crawford, W8FWA
124 Aqua Ct
Royal Oak, MI 48073

NEW YORK Founder's Chapter member would like to approach one of the City's major museums and persuade them to add an exhibit of the earliest development of radio. Would like to find an outstanding example of an early spark transmitter to excite their interest. Prefer donation but willing to pay

Tim McInerney, KC1EZ
316 West 75th St
New York, NY 10023

WANTED: Boehme Automatic Keying head type 4E, Series B.

Bob Bowker, K6QT
10445 Scotch Pines Rd
Payette, ID 83661

FOR SALE: DX150B & Lafayette HA-600 receivers. Both solid state & turned up. \$75 each, plus shipping.

Ralph Davidson K6VTO
35 Carmel Dr
Novato, CA 94945

WANTED: Mosley Model MCQ-3 tri-band cubical quad antenna for 10,15,20 meters, or parts therefore, especially insulators #2422 and spreader #2276

Robert Wattleworth K9EAN
1309 Hillside Dr
Tarpon Springs, FL 34689

WANTED: Collins 4A transmitter, Meissner Signal Shifter, Collins 32V-3 transmitter, Early Hallicrafters "Sky Rider", early communications receivers, Swan Astro 150, 151 or 102BX, Collins 310B exciter.

Steve Barnes, K6PFW
848 N Silverwood
Upland, CA 91786

FOR SALE FROM ESTATE: many bound copies of radio, electronic, TV and electrical books. Hallicrafters TO Keyer, excellent cdx, Many different types crystal holders.

Barney Moffatt, W5CJZ
5714 Trail Meadow Dr
Dallas, TX 75230

WANTED: Restoring still flying B-25 need in any cdx: BC-375, BC-348, BC-221, SCR-522, SCR274N, SCR269 or ARN-7, pictures of radio operating position.

813 754 2527
Wilbur Dempsey
1005 W. Cason St
Plant City, FL 33566

FOR SALE: RCA AR88D receiver with manual. Hammarlund SP-600 receiver with manual, both in fb cdx - make offer.

Steve Antosy, K6HPA
2714 Monterey Rd
San Marino, CA 91108

WANTED: Gonset G-76 AC power supply Model 3349 for G-76 Multiband transceiver 3338. Must be in good cdx with all cables. State price with shipping in first letter

Thomas L. Long, Sr. W3ONE
5308 Manorfield Rd
Rockville, MD 20853

FOR SALE: Stunning antique resonator box, one of a kind. Stand is Rococo all heavy sterling brass. Light flashes on and off in accordance with what is being sent on sounder. \$99, prepaid. Telegraph catalog \$1.00.

W. C. Hess, W6CK
Box 19
Pasadena, CA 91102

WANTED: Collins books, "First 50 Years, History of Collins Radio" and "Amateur Single Sideband" and "Single Sideband Principles and Circuits" by Pappenus, Bruene & Schoenike (1964).

Bill Mills, KC5PF
1740 Tonys Ct,
Amissville, VA 22002

WANTED: Restoring still flying B-25 bomber radio operating position. Need radio gear in any cdx. Call collect

813 754 2527
Wilbur Dempsey, WW4F
1005 W Cason St
Plant City, FL 33566

NEED: cross-index tube types for JAN index versus regular type numbers.

Ernie Savage, VE7FB
4553 West 12th Ave
Vancouver, BC V6R 2R4
Canada

FOR SALE: all sorts of WW-II gear, bits and pieces. For instance:

BC-689 - 2 sets, with cables
FT-244A - 6 sets, with plugs
APR-4 - 2 sets with tuners
T39-APQ9 - 1 set
530DC3B - 6/12 Vdc motor-generators to 500 V DC have 6 in original cartons unused
Some old BC-348's
Couple BC-221, and more!

and so it goes. If interested get in touch. 50% of whatever is sold goes to the Memorial Fund!

Ted Heithecker, W5EJ
Rt 2, Box 459
Springtown, TX 76082

Members Newly Enrolled In QCWA

11-10-88	22,000	Ray F. Hickman	W61ZS	Lamesa, CA	Ray Dobler	W6BHF
	22,001	Thomas H. Miller	K41C	Arlington, VA	Leland Smith	W5KL
	22,002	William J. Mac Donald	K4BR	Waynesboro, GA	David Talley	W2PF
11-11-88	22,003	Russell E. Markwart	K7VNS	Portland, OR	-	-
	22,004	Eugene S. Dombrowik	W1QJL	New Britain, CT	Al Cohen	W1FXQ
	22,005	Norman Merritt Monro	K4FRY	Gadsden, AL	Jim Walsh	W7LVN
11-14-88	22,006	Harold J. Bell	WA8LAY	Lansing, MI	-	-
	22,007	Edward L. Westbert	WA9Y	East Troy, WI	-	-
	22,008	Edwin A. Andress	W6KUT	Poway, CA	Ray Dobler	W6BHF
	22,009	W.G. Graham	KV6J	Thousand Oaks, CA	Jeff Seligman	WA2VNT
	22,010	Ernest F. Rubino	WA6RPP	Chula Vista, CA	Bob McDonald	KE6VB
	22,011	Kenneth G. Hanson	NC20	Silver Springs, FL	Merle Turner	W3GF
	22,012	Charles C. Norris, Jr.	W2101	Enfield, NH	-	-
	22,013	Jerry L. Verduft	AD0A	Riverside, CA	-	-
11-15-88	22,014	Ronald E. Vincent	WJ7R	Eugene, OR	Greg Combs	K7ZX
	22,015	Karl Maerz	DL1MEB	Erding, West Germany	-	DL9AR
	22,016	Guenter Schupp	DL6IM	Geilenkirchen, West Germany	-	DL9YP
	22,017	James A. McMurray	WE2I	Oakhurst, NJ	Ted Heithecker	W5EJ
11-17-88	22,018	J. Paul Businger	W8QZK	Weston, OH	James A.C. Johnson	W8RBX
11-21-88	22,019	Manuel A. Rivera	K5ZNN	Greendale, WI	Edward A. Sergua	KE9JJ
	22,020	Robert L. Vinikoor	W1HUY	Norwich, VT	-	K1LEC
	22,021	Thomas E. Chandler	K7UOT	Delta, UT	Bill Vaughan	W7CKD
	22,022	Raymond F. Grogan	N1FNN	Newington, CT	Milt Chaffee	W1EFW
	22,023	Jacob E. Joyner	WA6QPG	Covelo, CA	-	-
	22,024	David B. Perrin	K10PQ	Contoocock, NH	-	K1BGI
11-22-88	22,025	David E. Weinreich	WA2VUJ	Ijamsville, MD	-	-
	22,026	Roger A. Kryzanek	N7CSH	Bend, OR	-	-
	22,027	Frank Fallon	N2FF	East Williston, NY	-	W2JQS
	22,028	Ralph Formica	WA2EBS	North Bellmore, NY	-	W2TLC
	22,029	John L. Cotton, Jr.	K5SN	Dallas, TX	-	-
	22,030	Frank E. Gut	NY2A	Wading River, NY	-	W2TLC
	22,031	Howard S. Liebman	W2QUV	New Hyde Park, NY	-	W2TLC
	22,032	Neil Shapiro	WB2KQI	Bethpage, NY	-	W2TLC
	22,033	Robert Wexelbaum	W21LP	Commack, NY	-	W2TLC
11-23-88	22,034	Walton L. Stinson	W0CP	Englewood, CO	Ted Heithecker	W5EJ
11-28-88	22,035	Hartley A. Postlethwaite	WB6CQW	Belmont, CA	Esther Given	W6BDE
	22,036	John A. Zett	W3FLD	York, PA	Ray Shaub	W3AXC
	22,037	Jerome E. Knight	K8SFF	Hessel, MI	Norman Bradshaw	W8EEF
	22,038	Robert C.D. Dressell	W3BPZ	Allentown, PA	Ted Heithecker	W5EJ
	22,039	V. Cliff Walker, Jr.	N4LPD	Ackworth, GA	Neil R. Foster	KC4UJ
	22,040	Sam Vejnovich	KE4MY	Englewood, FL	-	-
	22,041	Christeen, Vejnovich	KB4UDQ	Englewood, FL	-	-
12-01-88	22,042	Donald L. Mling	WB7F	Saint George, UT	Bill Vaughan	W7CKD
12-02-88	22,043	William M. Derby, Jr.	WA510D	Gulf Breeze, FL	Robert Bookwalter	W4NWF
	22,044	David E. Harrell	N01PN	Cottage Grove, MN	Fred Schmidt	W0ULU
	22,045	James T. Sumerlin	KA5GWR	Bellaire, TX	-	-
	22,046	Paul W. Fritsch	W3HHC	Allentown, PA	-	-
	22,047	Winston C. Sheppard	W3EVX	Philadelphia, PA	-	-
12-05-88	22,048	J. Michael Bennett	AL7JM	Anchorage, AK	Ted Heithecker	W5EJ
	22,049	Allan Koenigsberg	AE5J	Brooklyn, NY	-	-
	22,050	James T. Thompson	K0ENJ	Aurora, CO	-	-
	22,051	James J. Richardson	W6GFK	Magalia, CA	Marvin De Brunner	W6ATG
	22,052	John D. Adamson	W1HZH	Bedford, NH	-	-
	22,053	John P. Gagen	WA2WYR	Avon By The Sea, NJ	-	-
	22,054	James D. Anderson	K0QIQ	Raymore, MO	M.J. McAllister	W0CW
12-06-88	22,055	George F. Hodapp	K8OPV	Strongsville, OH	Don Sealy	W8QK0
12-07-88	22,056	Ronald J. Wilson	WA8CVH	Northville, MI	-	-
	22,057	Ola R. Hill	KC5FT	Albuquerque, NM	-	-
	22,058	Robert Earl Lee	K8RL	Albuquerque, NM	-	-
	22,059	Virginia L. Benka	W6MQH	Tijeras, NM	-	-
	22,060	James White	WA0DWU	Independence, MO	-	-
	22,061	Walter E. Marshall	W1RHR	Wallingford, CT	Al Cohen	W1FX0
12-09-88	22,062	Robert H. Perry	KL7CKC	Payson, AZ	-	-
	22,063	Kenneth L. Small	WA9HGA	Evansville, IN	-	-
	22,064	Thomas R. Newitt	WB6BBU	San Diego, CA	Joe Saugier	K6CD
	22,065	Roger Lewis Kehm	N0HCR	Sioux Falls, SD	Bob Beals	K0DBW
	22,066	Richard T. Marshall	WB4CCT	Danville, VA	John Kanade	N4MM
12-12-88	22,067	Ernest Amarasinghe	4S7EA	Boralesgamuwa, Sri Lanka	Karl Boymanns	DJ2NH
	22,068	Laurence Steller	W0MRU	Denver, CO	Jim Shearer	-
	22,069	Harry S. Eberly	K30EN	Ephrata, PA	-	-
12-13-88	22070	Jack I Watstein	K6TWG	Thousand Oaks, CA	Jeff M. Seligman	WA2VNT
	22,071	Evylyn Wilson	WA8KZW	Northville, MI	-	-
	22,072	Michael G. Hurley	WB7VUV	Hillsboro, OR	Thomas P. Trugher	W0ZX
12-14-88	22,073	Donald James Klier	WA0SSN	Faribault, MN	Leo Meyerson	W0GFQ
12-15-88	22,074	Lester L. Turner	W7BKQ	Las Vegas, NV	K.L. Dixon	K7AXT
	22,075	Larry L. Lawrence	NK8I	Mansfield, OH	-	-
12-16-88	22,076	John S. Hollar, Jr.	W3JJU	Hummelstown, PA	Mike O'Keefe	KR3D
12-20-88	22,077	Alfred Croft	K1DML	Westport, MA	Onie Woodward	W1ZEN

Members Newly Enrolled In QCWA

	22,078	Paul D. Gates	KD3JF	Easton, MD	William Kuning	W3BY
	22,079	Robert B. Ryan	K6YVG	Saugus, CA	-	-
	22,080	Andrew L. Rossanese	W3XM	Emmaus, PA	-	-
	22,081	Richard W. Perham	W8KAZ	Ferndale, MI	El Charlton	W5MD
	22,082	Raymond E. Wood	W9SDY	Yuma, AZ	Mike Strahan	KM7T
12-21-88	22,083	Vernon W. Wintroub	W6VQF	Agoura Hills, CA	Leo Meyerson	W0GFQ
	22,084	Edward Allen Henry	K4URZ	Radcliff, KY	-	-
	22,085	Kenneth L. Reiter	K9DBL	San Diego, CA	Joe Saugier	K6CD
12-23-88	22,086	Edward Swary, Jr.	WB4IPH	Eaton Park, FL	-	-
	22,087	John M. Gaittens	W7SPF	Gresham, OR	-	-
	22,088	Clair L. Jenkins	K7UZN	Glendale, AZ	Leo Meyerson	W0GFQ
	22,089	Rich E. Christiansen	KK4HF	Gurley, AL	Charles Rupp	W4HIY
	22,090	Raymond L. Kutil	W7NGG	Las Vegas, NV	K.L. Dixon	K7AXT
	22,091	Joseph M. Morris, Jr.	N4EU	Hampton, GA	Ted Heithecker	W5EJ
12-27-88	22,092	William H. Lindsay	KT7R	Ellensburg, WA	Wes Randles	W4COW
	22,093	Edward C. Bosco	W6ROW	San Diego, CA	Joseph Saugier	K6CD
	22,094	Joel A.B. Elston	K9TBD	Easton, PA	-	-
	22,095	Steven M. Cutshall	K3TZV	Shiremanstown, PA	Dick Kerlin	K3AM
	22,096	Kenneth I. Orcutt	W1RJP	Rockland, ME	-	-
	22,097	Paul E. Christiansen	VE6ABD	Ponoka, Alberta, Canada	Charles Tyrrell	VE6PV
12-29-88	22,098	Ing Jiri Pecek	OK2QX	Prerov, Czechoslovakia	-	-
	22,099	Minor W. Cross	KD7YJ	Corvallis, OR	Jim Walsh	W7LVN
12-30-88	22,100	Larry Mergen	N0IZZ	Kansas City, MO	-	-
	22,101	Harry Sussman	K1KQW	Waterford, CT	Culver Dorsey	W1FNY
	22,102	Raymond A. Hurlbut	W8FLX	Willoughby Hill, OH	Steve Novak	W8KGX
01-03-89	22,102	Arthur Allan Goodwin	W6AVX	Daly City, CA	-	W8GSFP
	22,104	Roger D. Carlson	N7HOS	Springfield, OR	Jim Walsh	W7LVN
01-04-89	22,105	Thomas W. Murray	WB6SLW	Camarillo, CA	-	-
01-05-89	22,106	Armand R. Pilotte	WA7IIM	Portland, OR	-	-
	22,107	Bennett M. Rigdon	WA4TJU	Fort Valley, GA	-	-
	22,108	Larry F. Burkett	WA7SOU	Vancouver, WA	Jim Walsh	W7LVN
01-06-89	22,109	Harry Buchin	W3TEB	Macungie, PA	-	W3CJI
	22,110	David L. Kotar	AA5HB	Baton Rouge, LA	El Charlton	W5MD
	22,111	James Wallace	W6YOB	Newbury Park, CA	-	-
	22,112	Philip E. Bartlett	K6UJO	Newbury Park, CA	-	-
	22,113	William D. Chandler	N6BED	Newbury Park, CA	-	-
01-09-89	22,114	Kropp Helmut	OE3UK	Gablitz, Austria	-	OE3RE
	22,115	William G. Mills	KC5PF	Amissville, VA	Harry Kaklikian	W4ACN
	22,116	Donald Louis Munding	K6CAB	Thousand Oaks, CA	-	WA2VNT
	22,117	Joseph H. Reisert, Jr.	W1JR	Chelmsford, MA	-	-
01-10-89	22,118	Roland D. Reed	K4XX	Sebring, FL	-	-
	22,119	Milton R. Halliburton	WB2OXI	Denville, NJ	Carl Felt	N2XJ
	22,120	Richard W. Pattison	K3ACR	Wyncote, PA	-	-
01-11-89	22,121	Charles J. Belunas	K8EGL	East Detroit, MI	-	-
	22,122	Montie F. Cone	WA4PBG	Falls Church, VA	T.E. Bobbitt	W4HV
	22,123	Taito Huhtala	W8AEZ	Lapeer, MI	-	-
	22,124	Frank T. Cook	W8HBG	Brecksville, OH	-	W8LYD
	22,125	John C. Marazi	W3BAL	Easton, PA	Richard E. Brown	W3CJI
	22,126	William P. Van Horn, Jr	K3CP	Bethlehem, PA	-	W3CJI
	22,127	William Y. Noriega	W6KBA	Pomona, CA	-	-
	22,128	John K. Brown	K7USZ	Woodburn, OR	W. Blaumer	K7ZED
	22,129	Lester E. Gruol	WU4D	Hendersonville, NC	J.R. David	-
01-13-89	22,130	Dwayne P. Modock	WA8MEM	North Olmsted, OH	-	W8LYD
	22,131	David Mallett	WA1BFA	Weston, MA	Leonard R. Hadley	-
	22,132	Darrell W. Ringer	K8WV	Morgantown, WV	-	-
	22,133	Duane C. Cheney	WB2RLI	Endwell, NY	William Corey	K2YYF
	22,134	William L. Berson	N6RUH	San Diego, CA	Joseph Saugier	K6CD
	22,135	John Mollan	AE7P	Vancouver, WA	-	-
	22,136	Nils H. Jansson	K8NJ	Muskegon, MI	H. Reikels	-
01-16-89	22,137	Denison Rich	KE8HY	Chesterland, OH	Don Sealy	W8QKO
	22,138	James T. Emmett	W7NAP	Phoenix, AZ	-	-
	22,139	Benito U. Moneta	NM7G	Rochester, NY	-	-
01-17-89	22,140	Walter Fydenchuk	VE3BQG	Exeter Ontario Canada	-	-
	22,141	Richard V. Jenkins	KC7VI	Baton Rouge, LA	-	N5HVO
	22,142	Alvin B. Berglund	W6WRU	Glendale, CA	Leo Meyerson	W0GFQ
	22,143	Robert L. Kraus	K6IYZ	Thousand Oaks, CA	-	-
	22,144	Elbert E. Ford	WB8ODN	Traverse City, MI	-	-
	22,145	Joel Herbsman	N0AOM	Independence, MO	Bill McGrannahan	K0ORB
01-18-89	22,146	William C. Greene, Jr.	WA5JGU	Oklahoma City, OK	-	-
	22,147	James E. Nabors	W5JDH	Bethany, OK	-	K5DLE
	22,148	Martin W. Rigoulot	KALIRA	Wallingford, CT	-	W1FXQ
	22,149	Gary F. Davis, Jr.	KD9SB	Columbus, IN	-	-
	22,150	Robert A. Smith	WA6WIH	Eagle Point, OR	W. Shrader	W7QMU
	22,151	Carroll W. Calvin	K5KMA	Tyler, TX	Cecil Cammack	W5RRM
	22,152	George H. Darwin	K7DY	Tucson, AZ	Ted Heithecker	W5EJ
	22,153	Bradford M. Sumner	K0TRL	Leawood, KS	-	-
	22,154	Carl L. Goatcher	W0HRL	Leland, NC	-	W4WXZ
	22,155	Lawrence R. McCalvy	WA9JMO	Racine, WI	-	-
	22,156	George S. MacLauchlan	KIIFV	Kingston, NH	-	-

MEMBERSHIP AWARDS AND SUPPLY INFORMATION

AWARDS

CERTIFICATES AVAILABLE TO MEMBERS

MEMBERSHIP CERTIFICATES, numbered in serial order are issued to each member. Numbers are not re-issued except to the same one to whom they were first issued.

QCWA GOLD CERTIFICATES celebrate the 50th anniversary of your first license, issued to eligible members upon proof of such licensing. Certificate issued without charge.

ENDORSEMENTS for the Golden certificate, in 5-year increments, 55-60-65-70-75 year. The endorsement sticker are free of charge to eligible members.

GOLDEN 50-YEAR CERTIFICATE FOR CONTINUOUS LICENSING is available to eligible members upon submission of proof of licensing. There is a \$5 fee. Proof requires a list of all calls, years held and other pertinent information.

QCWA CENTURY CLUB CERTIFICATE is issued to QCWA members whose age when added to the number of years as a member of QCWA equal 100 or more. There is no charge for the Certificate.

MERITORIOUS AWARD is issued by Headquarters, upon the request of any Active QCWA Chapter, one such award per chapter each year. The award may be given to Chapter members for unusual dedication to QCWA & Amateur Radio. There is no charge for the Certificate.

OPERATING AWARD CERTIFICATES

QCWA Operating Award certificates are issued to QCWA members by the Activities Manager. Proof of eligibility is required.

QCWA WORKED 50 STATES awards are issued to QCWA members who have contacted members in each state of the Union.

QCWA WORKED 100 MEMBER awards are issued to QCWA members upon proof of eligibility

QCWA WORKED 60 CHAPTER awards are issued to QCWA members upon proof of eligibility

QCWA WORKED 500 MEMBER awards are issued to QCWA members upon proof of eligibility

IN ADDITION, PLAQUES ARE AWARDED TO THE HIGHEST SCORING MEMBER FOR BOTH THE PHONE & CW QSO PARTIES. Runners up receive certificates.

SUPPLIES

QCWA Lapel pins, gold plated, with call engraved, specify clutch pin, safety pin or screw button type. Note, these pins do not have year tags! \$9.00

QCWA Lapel pin, gold plates with call engraved. These pins come only in clutch pin style, with year tags. Specify year (25, 30, 35, 40, 45, 50, 55, 60, 65, 70 and 75) \$9.00

QCWA Life Member Pin \$5.00

QCWA Blazer Emblem, embroidered \$5.00

270 QCWA Red membership (regular) stamps \$2.50

270 QCWA Gold (Life Member) stamps \$2.50

250 QCWA Yellow (50 Year) stamps \$2.50

QCWA Logo on rubber stamp (about 1/2") \$5.00

QCWA Logo on decal \$1.00

QCWA Cap with logo, fits all \$5.00

QCWA Chapter Banner 30 x 48, Chapter name & Number included \$110.00
QCWA pays half cost for banners!

ORDER BLANK

QCWA, Inc
1409 Cooper Dr
Irving, TX 75061

Please send the following items:

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\$

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\$
Total \$

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No. & Street City State Zip

Check or Money order for \$

☐ VISA ☐ MC ☐ AM EXP Valid through ____/____/____

Complete Account No. _____

Signature _____

Mail order & Payment to: QCWA Inc., 1409 Cooper Dr, Irving, TX 75061

QCWA CAPS

DON'T FORGET TO ORDER YOUR QCWA CAP. THEY'RE IN STOCK, IMMEDIATE DELIVERY AT \$5 EACH, POSTPAID! DO IT TODAY!



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Permit No. 8167

THE DEADLINE FOR MATERIAL
FOR THE FALL, 1989 ISSUE
OF THE QCWA JOURNAL IS
AUGUST 5, 1989!

Courtesy of the NL7XM Collection